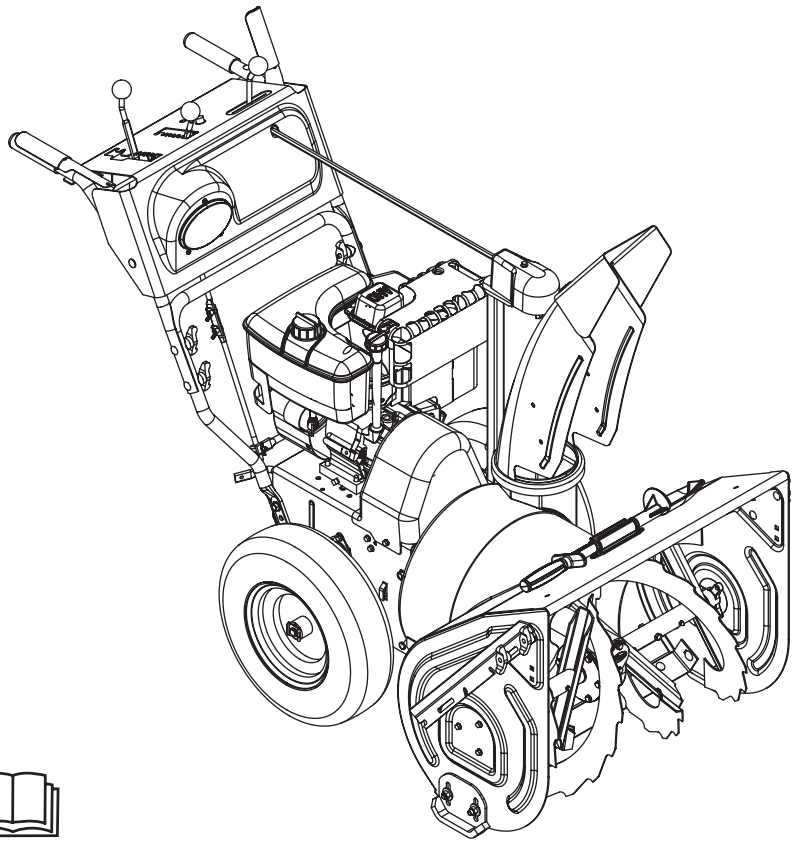
Sno-Thro®

Owner/Operator Manual

Models

926001 – ST926LE
926002 – ST11528LE
926003 – ST1332LE
926004 – ST926DLE
926005 – ST11526DLE
926006 – ST1328DLE
926101 – ST926LE
926102 – ST11528LE
926103 – ST1332LE
926300 – ST11526DLE
926301 – ST926DLE
926302 – ST1332LE
926303 – ST1328LE
926304 – ST11528LE
926500 – ST1332DLE
926501 – ST1336DLE
926504 – ST8526LE
926505 – ST8526L





- GB ENGLISH
- F FRANÇAIS
- D DEUTSCH
- I ITALIANO
- SF SUOMI
- E ESPAGÑOL
- N NORSK
- S SVENSKA
- RU РУССКИЙ ЯЗЫК
- PL POLSKI
- TU TÜRKÇE
- CZ ČESKY

Transfer model & serial number label from product registration here.

Coller l'autocollant du modèle et du numéro de série dans cet encadré.

Transferir aquí la etiqueta del modelo y número de serie del registro del producto.

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Printed in USA

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We the undersigned, ARIENS COMPANY, certify that: Nous, soussignés ARIENS COMPANY, certifions que : Der Unterzeichnete, ARIENS COMPANY, bescheinigt, dass: La sottoscritta società ARIENS COMPANY certifica che: Nosotros, los abajo firmantes, ARIENS COMPANY, certificamos que: Undertegnede, ARIENS COMPANY, bekrefter at: Undertecknad, ARIENS COMPANY, intygar att: Allekirjoittanut, ARIENS COMPANY, vakuuttaa, että: My, niżej podpisani, ARIENS COMPANY, oświadczamy, że: My, nížepodepsaní, ARIENS COMPANY, prohlašujeme, že:

Type: Type : Typ: Tipo: Tipo: Type: Typ: Tyyppi: Typ: Typ:	WALK BEHIND SNOW THROWER – LES CHASSES-NEIGE AUTOTRACTÉS – HANDGEFÜHRTE SCHNEEFRÄSE – SPAZZANEVE SEMOVENTE – CAMINAR POR DETRÁS DE LA LANZADORA DE NIEVE – SNØFRESER – SJÄLVGÅENDE SNÖSLUNGA – KÄSINOHJAILTAVA LUMILINKO – ODGARNIACZ ŚNIEGU DO PROWADZENIA PRZED SOBĄ – SNĚHOVÁ FRÉZA S POJEZDEM
Trade Name: Appellation commerciale : Handelsbezeichnung: Nome commerciale: Nombre comercial: Handelsnavn: Handelsbeteckning: Kauppanimi: Nazwa handlowa: Obchodní název:	Ariens
Model: Modèle : Modell: Modello: Modelo: Modell: Modell: Malli: Model: Model:	926300, 926301, 926302, 926303, 926304, 926500, 926501, 926504, 926505

Conforms to: Est conforme à : Mit den Anforderungen der folgenden Richtlinien übereinstimmt: È conforme a: Cumple con: Er i samsvar med: Överensstämmer med: Täyttää seuraavat vaatimukset: Jest zgodny z: Odpovídá normě:

98/37/EC, 89/336/EEC,
2000/14/EC Conformity Assessment Annex V. Annexe V de l'évaluation de conformité. Konformitätsbewertung, Anhang V. Annesso V della valutazione di conformità. Anexo V de la evaluación de la conformidad. Samsvarsvurdering etter vedlegg V. Bedömning av överensstämmelse Bilaga V. Vaatimustenmukaisuuden arviointi, liite V. Dodatek V, Ocena zgodności. Posouzení shody příloha V.

Representative Measured Sound Power Level (L_{wa}) – Niveau de puissance acoustique représentatif mesuré (L_{wa}) – Repräsentativer gemessener Geräuschpegel (L_{wa}) – Livello di potenza sonora rappresentativo rilevato (L_{wa}) – Nivel de potencia acústica representativo medido (L_{wa}) – Representativt målt lydeffektnivå (L_{wa}) – Representativ uppmätt ljudnivå (L_{wa}) – Tyypillinen mitattu äänitehotaso (L_{wa}) – Zmierzony reprezentatywny poziom mocy akustycznej (L_{wa}) – Representativní hodnota změřené hladiny hlučnosti (L_{wa}) —	Guaranteed Sound Power Level (L_{wa}) – Niveau de puissance acoustique garanti (L_{wa}) – Garantierter Geräuschpegel (L_{wa}) – Livello di potenza sonora garantito (L_{wa}) – Nivel de potencia acústica garantizado (L_{wa}) – Garantert lydeffektnivå (L_{wa}) – Garanterad uppmätt ljudnivå (L_{wa}) – Taattu äänitehotaso (L_{wa}) – Gwarantowany reprezentatywny poziom mocy akustycznej (L_{wa}) – Zaručovaná hodnota hladiny hlučnosti (L_{wa}) —
926302, 926303, 926500: 105 dB_A 926504, 505: 106 dB_A 926300, 926304, 926501: 107 dB_A 926301: 108 dB_A	926302, 303, 926500: 109 dB_A 926504, 505: 110 dB_A 926300, 926304, 926501: 111 dB_A 926301: 112 dB_A

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Allekirjoitus Podpis Podpis

12/13/2005
Date Date Datum Data Fecha Dato
Datum Päiväys Data Datum

CE Sound and Vibration – Niveau sonore et vibration CE – CE-Geräuschpegel und Vibrationswerte – Livello sonoro e vibrazioni CE – Sonido y vibración CE – CE-lydnivå og Vibrasjonsmåling – CE ljudnivå och Vibrations-mätning – CE-melutaso Tärinä – CE Dźwięku i Wibracji – CE zvuk a vibrace

Model: – Modèle : – Modell: – Modello: – Modelo: – Modell: – Modell: – Malli: – Model: – Model:	926300	926301	926302	926303	926304	926500	926501	926504	926505
Oper. Ear Sound Pressure (L_{pa}) in dB_A – Pression acoustique Pression sonore à aux oreilles de l'opérateur (L_{pa}) en dB_A – Geräuschstärke am Ohr des Bedieners (L_{pa}) in dB_A – Potenza sonora percepita dall'operatore (L_{pa}) in. dB_A – Presión de sonido en el oído (L_{pa}) in dB_A – Lydtrykk i førerens øre (L_{pa}) in. dB_A – vid förarens position (L_{wa}) i dB_A – Kuljettajan korvaan kohdistuva äänipaine (L_{pa})/dB_A – Robocze ciśnienie akustyczne na uchu (L_{pa}) w decybelach$_A$ – Provozní hladina akustického tlaku (L_{pa}) v dB_A	94	95	92	93	93	93	95	94	94
Vibration Measure (m/sec^2) @ Operator Hands – Niveau de vibrationaux mains de l'opérateur – Vibrationswerte An den Händen des Bedieners – Misura delle vibrazioni alle mani dell'operatore – Cantidad de vibración en las manos del operador – Vibrasjonsmåling ved brukerens hender – Vibrationsmätning vid förarens händer – Tärinä kuljettajan käsissä – Pomiar wibracji (m/sec^2) na rękach operatora – Hodnota vibrací (m/s^2) na rukou obsluhy	8.6	7.5	7.3	8.1	10.1	7.5	7.8	9.7	9.7

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INTRODUCTION

THE MANUAL

Before operation of unit, carefully and completely read your manuals. If used improperly, this unit could be dangerous and cause personal injury or property damage. The contents will provide you with safety instructions for the safe use of your unit during normal operation and maintenance.

All reference to left, right, front, or rear are given from operator standing in operation position and facing the direction of forward travel.

MODEL AND SERIAL NUMBERS

When ordering replacement parts or making service inquiries, know the Model and Serial numbers of your unit and engine.

Numbers are located on the product registration form in the unit literature package. They are printed on a serial number label, located on the frame of your unit.

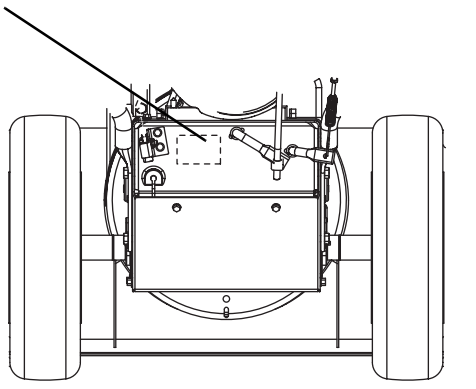


Figure 1

OS7005

- Record Unit Model and Serial numbers here.

- Record Engine Model and Serial number here.

PRODUCT REGISTRATION

The Ariens dealer must register the product at the time of purchase. Registering the product will help the company process warranty claims or contact you with the latest service information. All claims meeting requirements during the limited warranty period will be honored, whether or not the product registration card is returned. Keep a proof of purchase if you do not register your unit.

Customer Note: If the dealer does not register your product, please fill out, sign, and return the product registration card to Ariens or go to www.ariens.com.

UNAUTHORIZED REPLACEMENT PARTS

Use only Ariens replacement parts. The replacement of any part on this vehicle with anything other than an Ariens authorized replacement part may adversely affect the performance, durability, or safety of this unit and may void the warranty. Ariens disclaims liability for any claims or damages, whether warranty, property damage, personal injury or death arising out of the use of unauthorized replacement parts. To locate your nearest Ariens Dealer, go to www.ariens.com on the internet.

DISCLAIMER

Ariens reserves the right to discontinue, make changes to, and add improvements upon its products at any time without public notice or obligation. The descriptions and specifications contained in this manual were in effect at printing. Equipment described within this manual may be optional. Some illustrations may not be applicable to your unit.

DELIVERY

Customer Note: If you have purchased this product without complete assembly and instruction by your retailer, it is your responsibility to:

1. Read and understand all assembly instructions in this manual. If you do not understand or have difficulty following the instructions, contact your nearest Ariens Dealer for assistance. Make sure all assembly has been properly completed.

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NOTE: To locate your nearest Ariens Dealer, go to www.ariens.com on the internet.

WARNING: Improper assembly or adjustments can cause serious injury.

2. Understand all Safety Precautions provided in the manuals.
3. Review control functions and operation of the unit. Do not operate the Sno-Thro unless all controls function as described in this manual.
4. Review recommended lubrication, maintenance and adjustments.
5. Review Limited Warranty Policy.
6. Fill out a Product Registration Card and return the card to the Ariens Company or go to www.ariens.com.

SAFETY

WARNING: To avoid injury to hands and feet, always disengage clutches, shut off engine, and wait for all movement to stop before unclogging or working on snow thrower.

Hand contact with the rotating impeller is the most common cause of injury associated with snow throwers. Never use your hand to clean out the discharge chute.

Keep hands and feet away from auger and impeller.

SAFETY ALERTS

Look for these symbols to point out important safety precautions. They mean:

Attention!

Personal Safety Is Involved!

Become Alert!

Obey The Message!

The safety alert symbols above and signal words below are used on decals and in this manual. Read and understand all safety messages.

DANGER: IMMINENTLY HAZARDOUS SITUATION! If not avoided, WILL RESULT in death or serious injury.

WARNING: POTENTIALLY HAZARDOUS SITUATION! If not avoided, COULD RESULT in death or serious injury.

CAUTION: POTENTIALLY HAZARDOUS SITUATION! If not avoided, MAY RESULT in minor or moderate injury. It may also be used to alert against unsafe practices.

NOTATIONS

NOTE: General reference information for proper operation and maintenance practices.

IMPORTANT: Specific procedures or information required to prevent damage to unit or attachment.

PRACTICES AND LAWS

Practice usual and customary safe working precautions, for the benefit of yourself and others. Understand and follow all safety messages. Be alert to unsafe conditions and the possibility of minor, moderate, or serious injury or death. Learn applicable rules and laws in your area. Always follow the practices set forth in this manual.

REQUIRED OPERATOR TRAINING

Original purchaser of this unit was instructed by the seller on safe and proper operation. If unit is to be used by someone other than original purchaser; loaned, rented or sold, ALWAYS provide this manual and any needed safety training before operation.

SAFETY DECALS AND LOCATIONS

ALWAYS replace missing or damaged Safety Decals. Refer to figure below for Safety Decal locations.

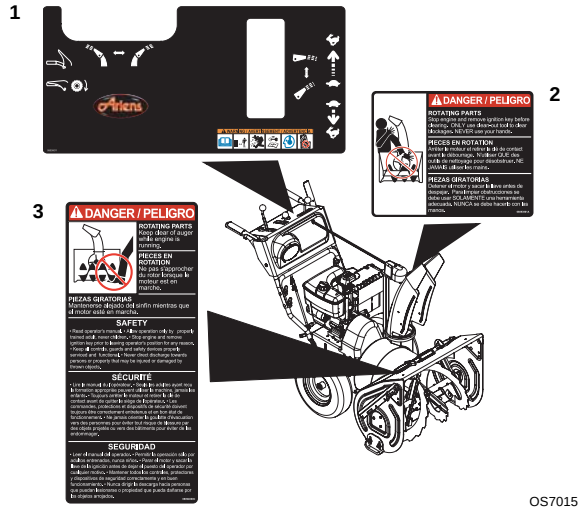


Figure 2

1. WARNING!

Read Owner/Operator Manual.

OL1801


OL4370

Keep people away from unit while operating. Keep children out of work area and under watchful care of a responsible adult.


OL0910

Never direct discharge towards persons or property that may be injured or damaged by thrown objects.


OL4010

Stop engine, remove key, read manual before making any repairs or adjustments.


OL4690

Wear appropriate hearing protection.



ONLY use clean-out tool to clear blockages. NEVER use your hands.

2. DANGER!


OS6610

ROTATING PARTS! ONLY use clean-out tool to clear blockages. NEVER use your hands. **High speed impeller rotates below discharge opening. Wait for all moving parts to stop before removing clogs or servicing.**

3. DANGER!


OS2080

ROTATING PARTS.
Keep clear of auger while engine is running.

- Read Operator's Manual.
- Allow operation only by properly trained adult, never children.
- Stop engine and remove ignition key prior to leaving the operator's position for any reason.
- Keep all controls, guards and safety devices properly serviced and functional.
- Never direct discharge towards persons or property that may be injured or damaged by thrown objects.

SAFETY RULES

Read, understand, and follow all safety practices in Owner/Operator Manual before beginning assembly or operating. Failure to follow instructions could result in personal injury and/or damage to unit.

ALWAYS remove key and/or wire from spark plug before assembly, maintenance or service. Unintentional engine start up can cause death or serious injury.

Complete a walk around inspection of unit and work area to understand:

• Work area • Your unit • All safety decals

ALWAYS check overhead and side clearances carefully before operation. ALWAYS be aware of traffic when operating along streets or curbs.

Keep children and people away. Keep children out of work area and under watchful care of a responsible adult.

NEVER allow children to operate or play on or near unit. Be alert and shut off unit if children enter area.

DO NOT allow adults to operate unit without proper training.

Keep area of operation clear of all toys, pets, and debris. Thrown objects can cause injury.

Check for weak spots on docks, ramps or floors. Avoid uneven work areas and rough terrain. Stay alert for hidden hazards.

Avoid uneven and rough terrain. DO NOT operate near drop-offs, ditches, or embankments. Unit can suddenly turn over if a wheel is over the edge of a cliff or ditch, or if an edge caves in.

Falling snow, fog, etc. can reduce vision and cause an accident. Operate unit only when there is good visibility and light.

Only trained adults may operate unit.

Training includes actual operation.

NEVER operate unit after or during the use of medication, drugs or alcohol. Safe operation requires your complete and unimpaired attention at all times.

NEVER allow anyone to operate this unit when their alertness or coordination is impaired.

DO NOT operate unit without wearing adequate winter outer garments. Wear adequate safety gear, including safety glasses with side shields, and protective gloves. Wear proper footwear to improve footing on slippery surfaces.

DO NOT wear loose clothing or jewelry and tie back hair that may get caught in rotating parts.

Protect eyes, face and head from objects that may be thrown from unit. Wear appropriate hearing protection.

Avoid sharp edges. Sharp edges can cut. Moving parts can cut off fingers or a hand.

ALWAYS keep hands and feet away from all rotating parts during operation. Rotating parts can cut off body parts.

NEVER place your hands or any part of your body or clothing inside or near any moving part while unit is running.

ALWAYS keep hands away from all pinch points.

DO NOT touch unit parts which might be hot from operation. Allow parts to cool before attempting to maintain, adjust or service.

Never direct discharge towards persons or property that may be injured or damaged by thrown objects. Use extreme caution on gravel surfaces. Stay alert for hidden hazards or traffic. Adjust Runners so Scraper Blade does not contact gravel.

DO NOT throw snow any higher than necessary.

Deflected materials can cause injury and property damage.

Always stand clear of the discharge area when operating this unit.

Fumes from engine exhaust can cause injury or death. DO NOT run engine in an enclosed area. Always provide good ventilation.

ALWAYS disengage attachment, stop unit and engine, remove key and allow moving parts to stop before leaving operator's position.

ROTATING IMPELLER CAN CAUSE SERIOUS INJURY. NEVER ATTEMPT TO UNCLOG OR CLEAN UNIT WHILE ENGINE IS RUNNING.

Read, understand, and follow all instructions in the manual and on the machine before starting.

Understand:

- How to operate all controls.
- The functions of all controls.
- How to STOP in an emergency.

Before starting engine, disengage control(s).

Use only approved extension cords and receptacles when starting units equipped with electric starter. DO NOT connect electric starter cord to any wiring system that is not a three-wire grounded system.

ALWAYS allow unit and engine to adjust to outdoor temperatures before clearing snow.

Always be sure of your footing, especially when operating in reverse or leaving the operator's position. Walk, never run during operation.

DO NOT overload the machine capacity by attempting to clear snow at too fast a rate.

DO NOT operate at too fast a rate.

Slow down and turn corners slowly.

Do not operate in reverse unless absolutely necessary. ALWAYS back up slowly. Always look down and behind before and while backing.

Disengage attachment drive when traveling from one work area to another.

Abnormal Vibrations are a warning of trouble. Striking a foreign object can damage unit. Immediately stop unit and engine. Remove key and wait for all moving parts to stop. Remove wire from spark plug. Inspect unit and make any necessary repairs before restart.

Before cleaning, removing clogs or making any inspections, repairs, etc.: disengage clutch(es), stop unit and engine, remove key, allow moving parts to stop. Allow hot parts to cool.

Run unit a few minutes after clearing snow to prevent freeze-up of attachment.

Disengage attachment when not in use. Disengage all clutches before starting engine. Adjust runners to clear gravel or crushed rock surfaces safely.

Never leave a running unit unattended. ALWAYS shut off engine before leaving unit. ALWAYS remove key to prevent unauthorized use.

Never carry passengers.

Check clutch and brake operation frequently. Adjust and service as required. All motion of drive wheels and auger/impeller must stop quickly when control levers are released.

DO NOT operate on steep slopes. DO NOT clear snow across the face of slopes. Keep all movement on slopes slow and gradual. DO NOT make sudden changes in speed or direction. Use a slow speed to avoid stops or shifts on slopes. Avoid starting or stopping on a slope.

DO NOT park unit on a slope unless absolutely necessary. When parking on a slope always block the wheels.

ALWAYS shut off engine, remove key, and close fuel shut-off valve or drain fuel when transporting unit on a truck or trailer.

Use extra care when loading or unloading unit onto trailer or truck.

Secure unit chassis to transport vehicle. NEVER secure from rods or linkages that could be damaged.

DO NOT transport machine while engine is running.

Keep unit free of ice or other debris. Clean up oil or fuel spills.

This product is equipped with an internal combustion type engine. DO NOT use unit on or near any unimproved, forest-covered or brush covered land unless exhaust system is equipped with a spark arrester meeting applicable local, state or federal laws. A spark arrester, if it is used, must be maintained in effective working order by operator.

Fuel is highly flammable and its vapors are explosive. Handle with care. Use an approved fuel container.

NO smoking, NO sparks, NO flames. ALWAYS allow engine to cool before servicing.

NEVER fill fuel tank when engine is running or hot from operation.

NEVER fill or drain fuel tank indoors.

Replace fuel cap securely and clean up spilled fuel.

Never fill containers inside a vehicle or on a truck or trailer bed with a plastic liner. Always place containers on the ground away from your vehicle before filling.

When practical, remove gas-powered equipment from the truck or trailer and refuel it on the ground. If this is not possible, then refuel such equipment on a trailer with a portable container, rather than from a gasoline dispenser nozzle.

Keep the nozzle in contact with the rim of the fuel tank or container opening at all times until fueling is complete. Do not use a nozzle lock-open device.

If fuel is spilled on clothing, change clothing immediately.

Avoid Electric Shock. Objects contacting both battery terminals at the same time may result in injury and unit damage. DO NOT reverse battery connections.

Explosive Gases from battery can cause death or serious injury. Poisonous battery fluid contains sulfuric acid and its contact with skin, eyes or clothing can cause severe chemical burns.

No flames, No sparks, No smoking near battery.

ALWAYS wear safety glasses and protective gear near battery.

DO NOT TIP battery beyond a 45° angle in any direction.

ALWAYS keep batteries out of reach of children.

Battery posts, terminals and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and reproductive harm. Wash hands after handling.

Follow First Aid directions for contact with battery fluid.

- External Contact: Flush with water.
- Eyes: Flush with water for at least 15 minutes and get medical attention immediately!
- Internal Contact: Drink large quantities of water. Follow with Milk of Magnesia, beaten egg or vegetable oil. Get medical attention immediately!
- In case of internal contact, DO NOT induce vomiting!

Before tipping unit up onto housing, remove fuel so no spills will occur and remove battery. Ensure unit is secure and will not tip over during maintenance.

ALWAYS keep protective structures, guards, and panels in good repair, in place and securely fastened. NEVER modify or remove safety devices.

DO NOT change engine governor settings or over-speed engine.

Fumes from engine exhaust can cause injury or death. DO NOT run engine in an enclosed area. Always provide good ventilation.

ALWAYS maintain unit in safe operating condition. Damaged or worn out muffler can cause fire or explosion.

Keep all hardware properly tightened. Check shear bolts frequently.

Maintain or replace safety and instruction labels, as necessary.

NEVER store unit with fuel in fuel tank, inside a building where any ignition sources are present such as hot water heaters, space heaters, or clothes dryers. Allow the engine to cool before storing in any enclosure.

Shut off fuel and allow engine to cool completely before storing in closed area or covering unit.

For extended storage, clean unit thoroughly. See Engine Manual for proper storage.

Use only attachments or accessories designed for your unit.

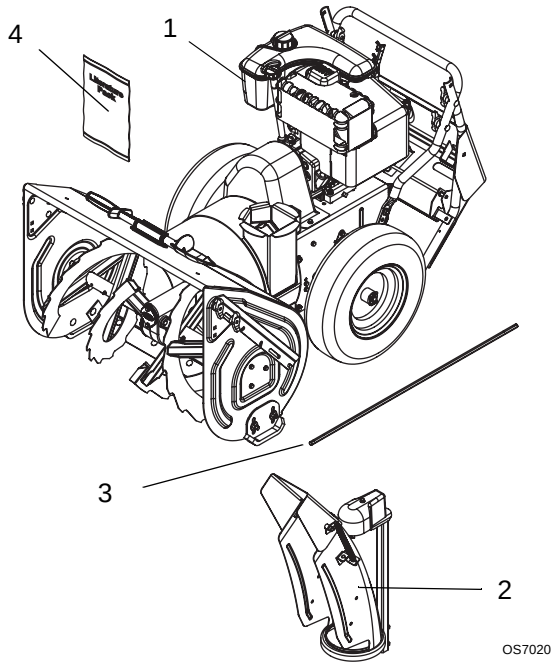
Check components frequently. If worn or damaged, replace with manufacturer’s recommended parts.

ASSEMBLY

WARNING: AVOID INJURY. Read and understand the entire *Safety* section before proceeding.

WARNING: Dropping or tipping over boxed unit could result in personal injury or damage to unit.

PACKAGE CONTENTS



1. Sno-Thro Unit
2. Discharge Chute
3. Chute Rod
4. Literature Pack with Extra Shear Bolts

Figure 3

ASSEMBLY

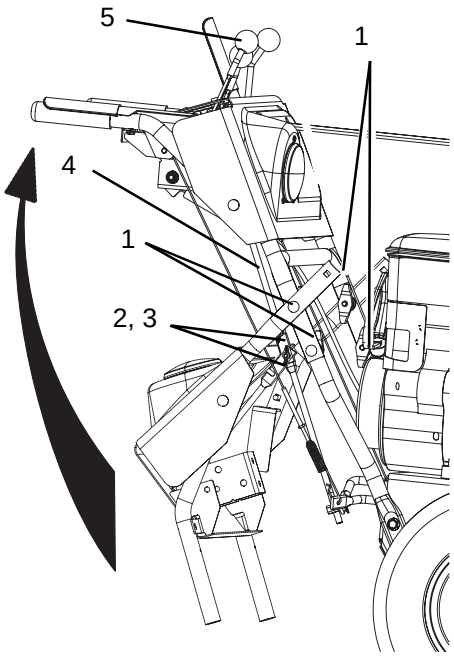
Tools Required:

- Pliers
- Open-End Wrenches: 3/8, 7/16, 1/2, 9/16 in. and/or Adjustable Wrench
- Tire Gauge

Unfold Handlebar (Figure 4)

1. Remove the lower and loosen the upper wing knobs on the handlebar assembly.
2. Loosen the wing nuts on the shift rod.
3. Put the speed selector lever in the first forward position.
4. Rotate the handlebars into operating position.
5. Install and tighten all wing knobs and wing nuts on the handlebar assembly and shift rod.

NOTE: The handlebar has two height positions. Adjust the handlebar height to provide better operator comfort. See *Handlebar Height* on page 22.



1. Wing Knobs
2. Wing Nut
3. Bolt
4. Shift Rod
5. Speed Selector Lever

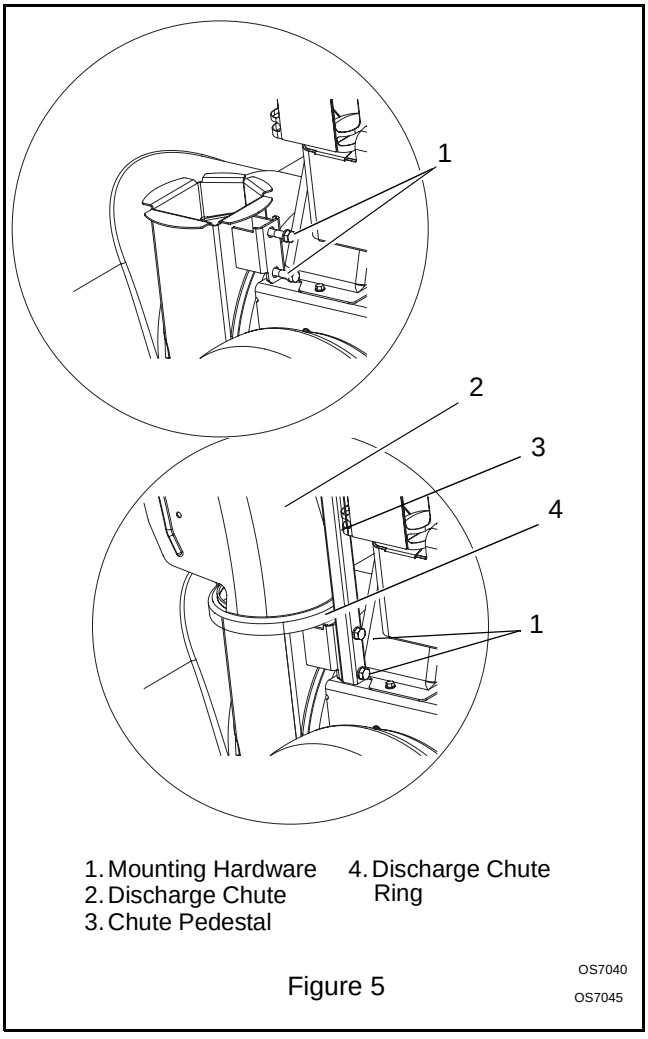
Figure 4

Install Discharge Chute and Discharge Chute Crank

(Figure 5)

1. Grease underside of discharge chute ring (if not already greased).
2. Remove mounting hardware from auger housing.
3. Install discharge chute over opening in the auger housing. Finger tighten the mounting hardware removed in step 2.

NOTE: Leave discharge chute pedestal loose to help install the chute rod and connect it to the control assembly.



1. Mounting Hardware
2. Discharge Chute
3. Chute Pedestal
4. Discharge Chute Ring

OS7040
OS7045

Figure 5

Install Discharge Chute Crank

1. Remove the cover from the gear assembly on the discharge chute.
2. Release the lock teeth on the gear assembly with your finger and rotate the discharge chute 90° left.
3. Remove and save the hairpin from the control assembly underneath the control panel.

NOTE: Do not remove the pin installed on the chute rod.

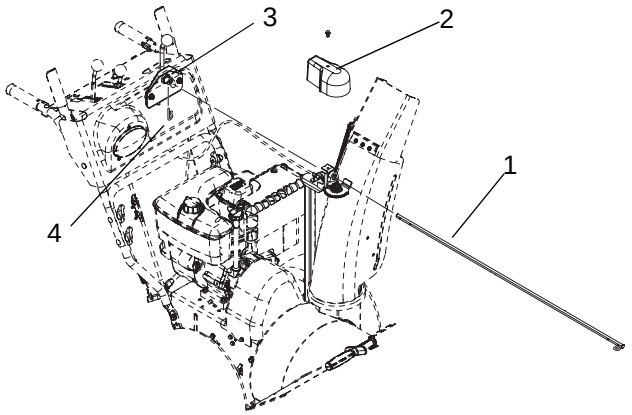
NOTE: To ensure the discharge chute follows its full range of travel, make sure the control lever is pushed all the way to the left before installing and pinning the chute rod.

4. Align the holes on the end of the chute rod with the mark on the gear assembly and slide the end without a pin through the gear assembly, through the loop on the chute lock cable and into the hex hole in the control assembly.

IMPORTANT: The loop will prevent the control cable from contacting the engine or muffler guard. If the loop gets damaged, loosely tie the cable to the control rod.

NOTE: After the chute rod has been inserted through the hex hole in the control assembly, placing the unit in the service position (see *Service Position* on page 19) will ease alignment and installation of the hair pin.

5. Secure the chute rod to the control assembly with the hair pin removed in step 3 using the proper hole location as shown in Figure 7. Insert the hair pin with the loop end to the left of the chute rod so the control assembly follows a full range of travel.

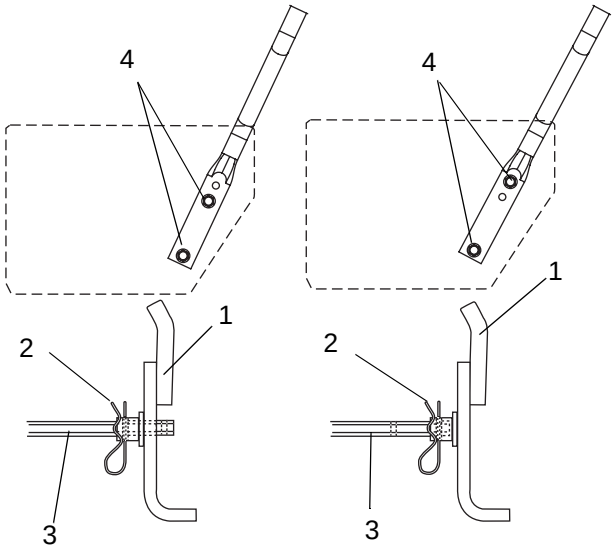


1. Chute Rod
2. Gear Cover
3. Control Assembly
4. Hair Pin

Figure 6

OS7060

Use the handlebar hardware locations on the side of the unit frame to determine which hole gets used to secure the chute rod to the control assembly.



1. Chute Control Assembly
2. Hair Pin
3. Chute Rod
4. Handlebar Mounting Hardware

Figure 7 OS7156

6. Insert the chute lock cable fitting into the bracket on the chute pedestal, and then connect the chute lock cable to the lock teeth by fitting the cable ball end into the slot on the lock teeth.

NOTE: Press down on lock teeth with your finger to align the cable ball end with the slot.

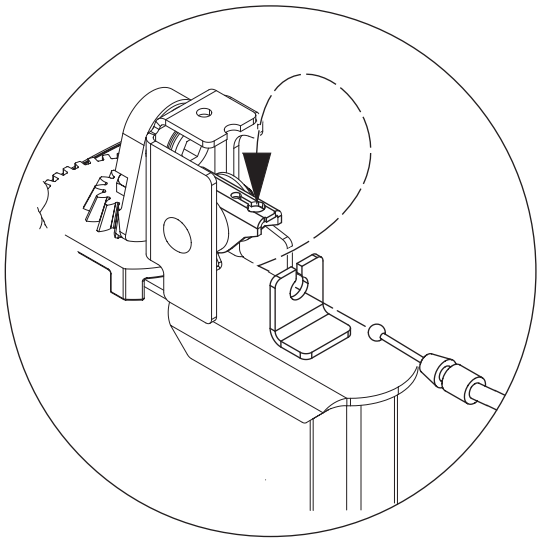


Figure 8 OS7270

7. Replace the gear cover removed in step 1.

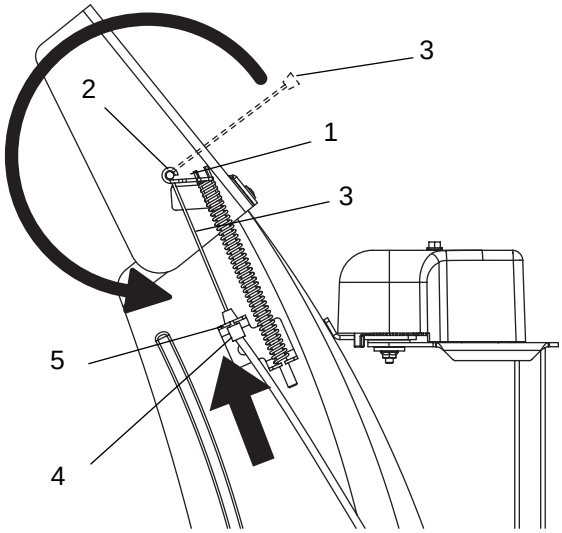
IMPORTANT: Rotate the discharge chute to the left when tightening the pedestal hardware to ensure clearance between the discharge chute and the belt cover.

8. Tighten pedestal hardware to 15–31 lbf-ft (20-42 N•m).
9. Make sure the discharge chute rotates left and right when you push the discharge chute control lever left and right.

Deflector Remote

NOTE: Connect the cable end to the cable anchor on the discharge deflector before clipping the cable to the cable bracket on the discharge chute.

1. Route deflector remote cable along the left side of the chute pedestal.
2. Insert the barrel on the cable end into the bracket on left side of chute deflector (Figure 9).
3. Hold seal out of the way while routing the cable through the bracket on the left side of the discharge chute, and then push the cable fitting into the bracket.
4. Push the seal securely over the end of the cable fitting to prevent water from entering the cable.
5. Check deflector travel. Adjust nut on cable end under handlebar to obtain full travel, if necessary. (See *Deflector Remote* on page 24.)



1. Cable Anchor
2. Cable End
3. Deflector Cable
4. Cable Fitting
5. Cable Bracket

Figure 9 OS7070

Connect Battery (926500, 501)

1. Remove wing nuts from battery cover.
2. Install wire lead to battery terminal.
3. Install battery cover and tighten wing nuts.

Check Function of Dual Handle Interlock

Without the engine running, press down (engage) both clutch levers. Release attachment clutch lever. Attachment clutch should remain engaged until traction clutch lever is released, then both clutches *must* disengage. If they do not, contact your dealer for repairs.

Check Tire Pressure

Check tire pressure and adjust to the pressure listed on tire sidewall.

Check Auger Gearcase Oil

Check oil level in auger gearcase (see *Check Auger Gearcase* on page 20).

Check Engine Crankcase Oil

IMPORTANT: The engine is shipped with 5W-30 oil in crankcase. Refer to Engine Manual for detailed instructions.

Fill Engine Fuel Tank

Refer to Engine Manual for proper fuel type and tank capacity.

Check Function of all Controls

Ensure unit runs and performs properly. Refer to *Operation*.

Run-in Attachment Belt

1. Start unit in a well-ventilated area according to *Starting and Shut Off* on page 17.
2. Engage attachment clutch lever and run attachment for about 15 minutes.
3. Stop unit, wait for all moving parts to stop, and remove spark plug wire.
4. Adjust belt finger, if necessary. See *Attachment Drive Belt Replacement* on page 27.
5. Adjust clutch idler according to *Attachment Clutch/Brake Adjustment* on page 25.

CONTROLS AND FEATURES

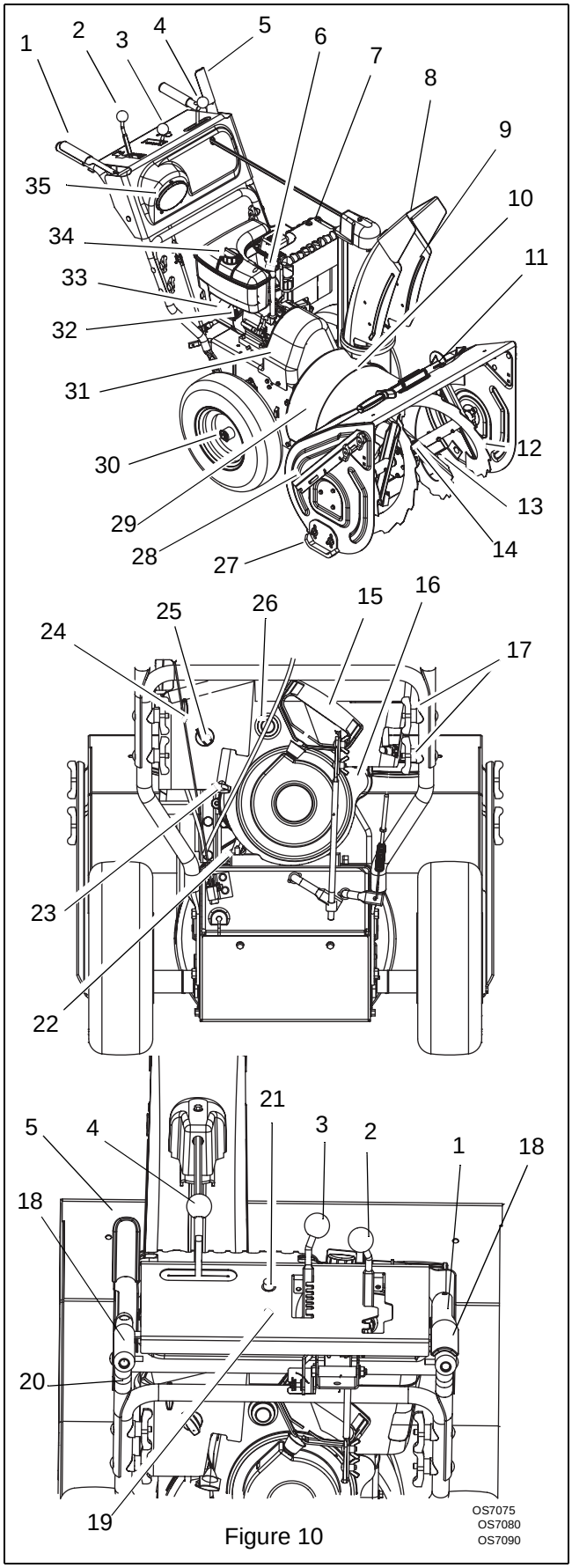


Figure 10

1. Attachment Clutch Lever
2. Speed Selector
3. Deflector Remote Control
4. Chute Control
5. Traction Drive Clutch Lever
6. Oil Fill/Dipstick
7. Muffler Guard
8. Discharge Chute Deflector
9. Discharge Chute
10. Impeller
11. Clean-Out Tool
12. Auger
13. Scraper Blade
14. Auger Gearcase
15. Recoil Starter Handle
16. Electric Starter (926001, 002, 003, 004, 005, 006, 101, 102, 103, 300, 301, 302, 303, 304, 504)
17. Wing Knobs
18. Heated Handles
19. Ignition Key (926500, 501)
20. Remote Differential Wheel Lock (926001, 002, 003, 004, 005, 006, 300, 301, 302, 303, 304)
21. Heated Handles Switch
22. Oil Drain Plug
23. Throttle (Engine Stop)
24. Ignition Key, push-pull (926001, 002, 003, 004, 005, 006, 101, 102, 103, 300, 301, 302, 303, 304, 504, 505)
25. Choke Control Knob
26. Primer Bulb
27. Runner
28. Drift Cutter
29. Battery Cover and Battery (926500, 501)
30. Axle Lock Pin (926001, 101, 504, 505)
31. Belt Cover
32. Solenoid Compartment (926500, 501)
33. Fuel Shut-Off Valve
34. Fuel Tank and Cap
35. Headlight

OPERATION

WARNING: AVOID INJURY. Read and understand the entire *Safety* section before proceeding.

WARNING: To avoid injury to hands and feet, always disengage clutches, shut off engine, and wait for all movement to stop before unclogging or working on snow thrower. Keep hands and feet away from auger and impeller.

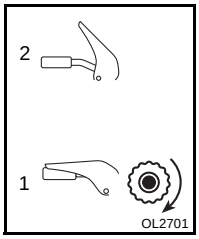
CONTROLS AND FEATURES

See Figure 10 for all Controls and Features locations.

Dual Handle Interlock

When Attachment Clutch and then Traction Drive Clutch are engaged, the Attachment Clutch will remain engaged (lever down) if released. To stop attachment, release Traction Drive Clutch and both clutches will disengage.

Traction Drive Clutch - Left Hand Lever

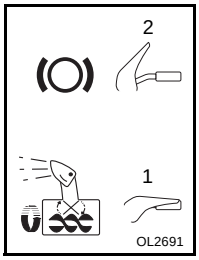


Squeeze the Traction Drive Clutch Lever against the Handlebar (1) to engage wheel drive for propelling unit. Forward speed will vary according to snow depth and moisture content.

Release lever (2) to stop movement.

NOTE: When traveling to or from the area to be cleared, press down on the handlebars enough to raise the front of the unit slightly off the surface. Engage the traction drive clutch without engaging the attachment drive clutch.

Attachment Clutch - Right Hand Lever

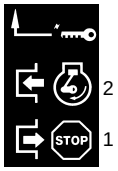


Squeeze Attachment Clutch Lever against handlebar (1) to engage attachment. Release both clutch levers (2) to disengage power and apply brake to attachment.

IMPORTANT: If the belt squeals when the attachment clutch lever is engaged, the impeller may be frozen in the auger housing. Immediately release the attachment clutch lever and move the unit into a heated area to thaw.

NOTE: If belt squeals when impeller turns freely, see *Attachment Drive Belt Replacement* on page 27.

Ignition Switch

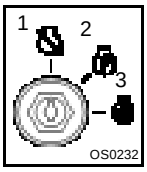


Key Switch has two positions:

1. “Stop” - pulled out
2. "Run" - pushed in

NOTE: DO NOT twist key after it is inserted.

Ignition Switch (12V start on dash panel)



The ignition switch is operated by a removable key. It has three positions:

1.Stop

2.Run

3.Start

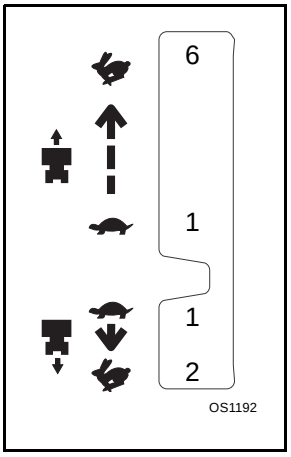
Primer Bulb



Pushing the primer bulb in adds fuel for easier engine start. Refer to *Starting and Shut Off* on page 17.

Speed Selector

Position the Speed Selector in the appropriate speed notch to control forward and reverse travel.



Forward:

(6) Fastest

(1) Slowest

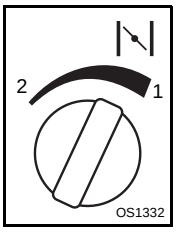
Reverse:

(1) Slow

(2) Fast

IMPORTANT: DO NOT change motion from forward to reverse with clutch engaged. Forward speed can be changed without declutching.

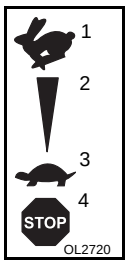
Choke Control Knob



1. Choke Closed position: chokes off air to engine for easier start.
2. Choke Open position: allows for normal operation.

IMPORTANT: Gradually open choke after engine starts.

Throttle



The throttle controls the engine speed. To increase or decrease the engine speed, adjust to:

1. Fast (normal or warm starts)
2. Part-Throttle
3. Slow (cold weather starts)
4. Stop (engine is off) (Not on 12V models)

Electric Starter (120V electric start models)

The electric starter will start a properly choked and cranked engine when the key is turned (12V) or starter button (120V or 240V) is pushed. Refer to *Starting and Shut Off* on page 17.

Recoil Starter Handle

When pulled, handle will turn engine over.

IMPORTANT: DO NOT let handle snap back against starter.

Snow Clean-Out Tool (Figure 11)

WARNING: Hand contact with the rotating impeller is the most common cause of injury associated with snow throwers. Never use your hand to clean out the discharge chute.

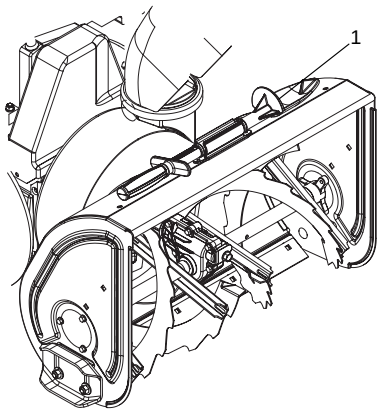


Figure 11 OS7100

To clear the chute:

1. Shut off the engine.
2. Wait 10 seconds and make sure impeller blades have stopped rotating.
3. Remove the snow clean-out tool (1) from the auger housing and use it to remove the clog.
4. Replace the snow clean-out tool on the auger housing.

Deflector Remote

Place deflector into position before operation. DO NOT throw snow any higher than necessary.

Place deflector remote in a forward notch to throw snow lower. Place deflector remote in a rearward notch to throw snow higher.

Discharge Chute

Discharge chute rotates 200°.

ALWAYS position discharge chute in safe direction and angle, away from operator and bystanders, before starting engine.

Discharge Chute Control

IMPORTANT: If chute does not stay in set position, adjust as directed in *SERVICE AND ADJUSTMENTS* on page 22, or repair before operation.

Rotate the Chute with Discharge Chute Control.

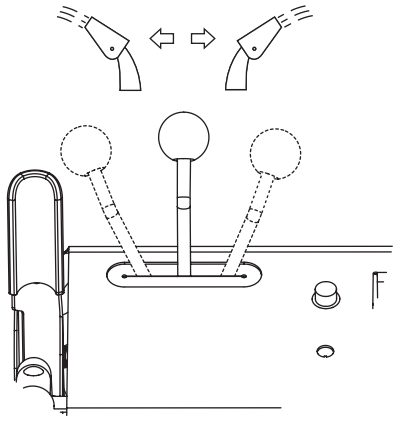
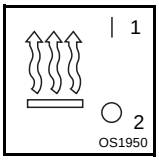


Figure 12 OS7105

IMPORTANT: DO NOT force frozen chute controls. If still frozen, take to warm place until controls are free.

Heated Handles (926002, 003, 004, 005, 006, 102, 103, 300, 301, 302, 303, 304, 500, 501)



Turn the heated handles switch to the ON (1) position to activate. Turn the switch to the OFF (2) position to deactivate.

Remote Differential (926004, 005, 006, 300, 301, 500, 501)

Squeeze and hold the remote differential lever to lock differential so both wheels drive and provide better traction. Release the remote differential lever to allow easier steering.

If remote differential does not engage or disengage properly, adjust or repair before operation (see *REMOTE DIFFERENTIAL (926004, 005, 006, 300, 301, 500, 501)* on page 23).

Remote Wheel Lock (926002, 003, 102, 103, 302, 303, 304)

Squeeze and release the remote wheel lock to lock the left wheel for better traction when throwing snow or to unlock the left wheel for easier steering.

NOTE: The wheel lock will not release when under load. Do not unlock the wheel while turning. If the wheel lock will not release, turn the unit slightly left or right to relieve axle load and release the axle lock.

If remote wheel lock does not lock or unlock properly, adjust or repair before operation (see *REMOTE WHEEL LOCK (926002, 003, 102, 103, 302, 303, 304)* on page 23).

Axle Lock Pin (Figure 13) (926001, 101, 504, 505)

Use the axle lock pin to lock or unlock the right or left wheel. Lock both wheels to increase traction; unlock one wheel to allow for easier turning of the unit.

NOTE: Unit will not drive with both wheels unlocked.

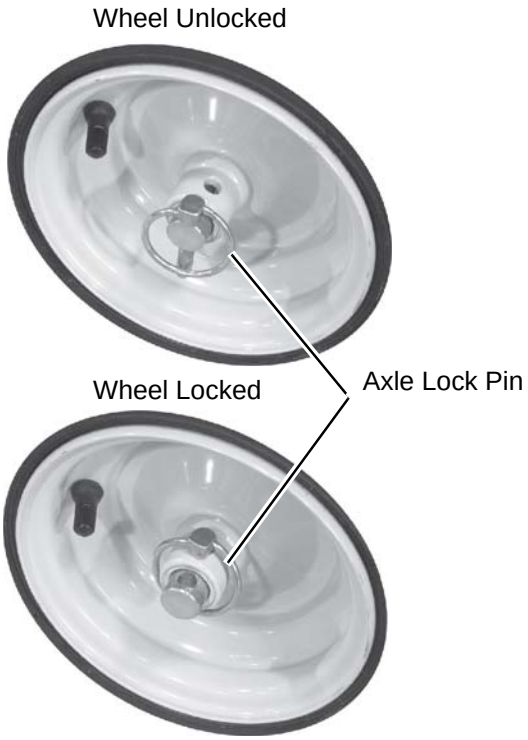


Figure 13

Scraper Blade

The scraper blade allows the back of the housing to keep better contact with the surface being cleared. It also prevents damage to the housing from normal wear.

IMPORTANT: DO NOT allow Scraper Blade to wear too far or Auger/Impeller housing will become damaged.

Runners

The runners control the distance between the scraper blade and the ground. Adjust runners equally to keep blade level with the ground. Refer to *Pre-Start* on page 17 for recommended settings.

Drift Cutters (Figure 14)

Drift cutters break up snow drifts that are taller than the auger housing and direct the snow into the auger. Store the drift cutters on the auger housing when not in use. Install them as shown below so they are taller than the snow to be cleared.

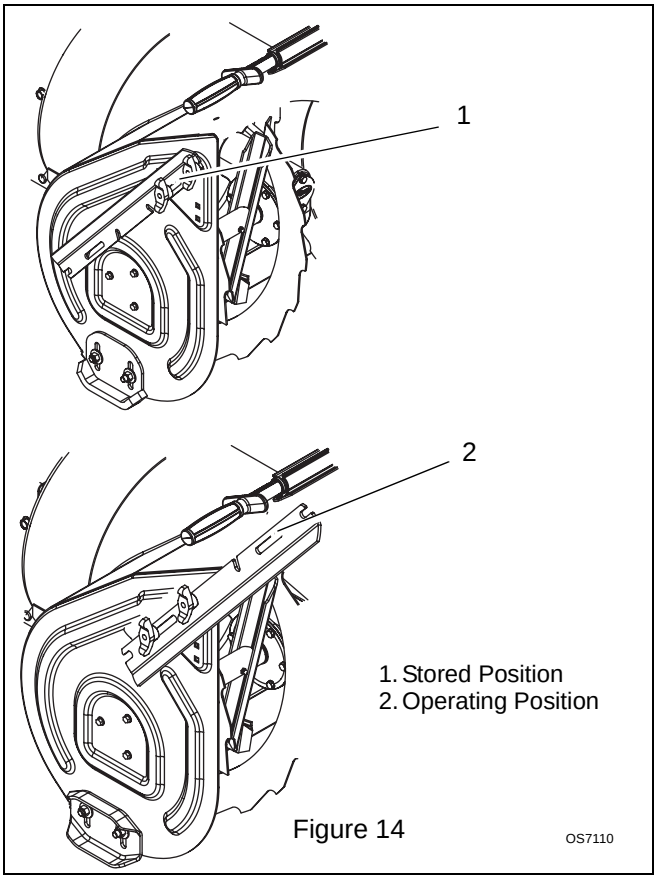


Figure 14

FILLING FUEL TANK

WARNING: AVOID INJURY. Read and understand the entire *Safety* section before proceeding.

Fuel Shut-Off Valve

IMPORTANT: The fuel shut-off valve MUST be in the closed position prior to transporting the unit.

The fuel shut-off valve has two positions:

- Closed Position: Use this position to service, transport, or store the unit.
- Open Position: Use this position to run the unit.

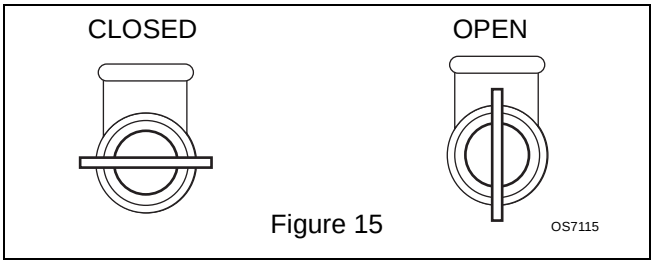


Figure 15

To add fuel to fuel tank:

1. ALWAYS place unit in open or well-ventilated area.
2. Stop engine and allow to cool.
3. Clean Fuel Cap and surrounding area to prevent dirt from entering Fuel Tank.
4. Remove Cap.

IMPORTANT: DO NOT use gasohol or gasoline containing alcohol. See Engine Manual for correct type and grade of fuel.

5. Fill fuel tank to within 1/2 in. (1.2 cm) below bottom of filler neck with unleaded gasoline.

NOTE: Tank capacity is 1 gallon (3.8 liters).

6. Replace Fuel Cap and tighten.
7. ALWAYS clean up any spilled fuel.

PRE-START

1. Frozen Impeller

IMPORTANT: Before starting engine, check impeller to be sure it is not frozen.

To check impeller:

1. With ignition key switch in “Stop” position, squeeze Attachment Clutch Lever to Engaged position.
2. Pull Recoil Starter Handle.
3. If Impeller is frozen, (cannot pull Starter Handle) move unit to a heated area and thaw to prevent possible damage.

2. Check Function of Clutches

If clutches do not engage or disengage properly, adjust or repair before operation (see *SERVICE AND ADJUSTMENTS* on page 22).

3. Check Dual Handle Interlock

Without the engine running, press down (engage) both clutch levers. Release attachment clutch lever. Attachment clutch should remain engaged until traction clutch lever is released, then both clutches *must* disengage.

If clutches do not engage or disengage properly, adjust or repair before operation (see *SERVICE AND ADJUSTMENTS* on page 22).

4. Check Remote Differential (926004, 005, 006, 300, 301, 500, 501)

Test the remote differential lock before starting. Squeeze and hold the remote differential lever to lock differential so both wheels drive and provide better traction. Release the remote differential lever to allow easier steering.

If remote differential does not engage or disengage properly, adjust or repair before operation (see *REMOTE DIFFERENTIAL (926004, 005, 006, 300, 301, 500, 501)* on page 23).

5. Check Remote Wheel Lock (926002, 003, 102, 103, 302, 303, 304)

Squeeze and release the remote wheel lock to lock the left wheel for better traction when throwing snow or to unlock the left wheel for easier steering.

If remote wheel lock does not lock or unlock properly, adjust or repair before operation (see *REMOTE WHEEL LOCK (926002, 003, 102, 103, 302, 303, 304)* on page 23).

6. Check Adjust Axle Lock (926001, 101, 504, 505)

Use the axle lock pins to lock or unlock the wheels. Lock both wheels to increase traction; unlock one wheel to allow for easier turning of the unit.

7. Check Runners

Check and adjust Runners (*SERVICE AND ADJUSTMENTS* on page 22). Allow 1/8 in. (3 mm) between scraper blade and hard, smooth surface(s). Allow 1-1/4 in. (30 mm) between scraper blade and uneven or gravel surfaces.

8. Check Engine Fuel & Crankcase Oil

WARNING: AVOID INJURY. Read and understand the entire *Safety* section before proceeding.

Check and add fuel if required. Check that the engine crankcase oil is full using dipstick. Refer to Engine Manual for detailed instructions.

TO STOP IN AN EMERGENCY

Immediately release both control levers to stop unit in an emergency. Stop engine, remove key and wait for all rotating parts to stop before leaving operator’s position.

STARTING AND SHUT OFF

WARNING: FAILURE TO FOLLOW INSTRUCTIONS could result in personal injury and/or damage to unit. DO NOT attempt to start your unit at this time. Read entire Owner/Operator Manual and the Engine Manual first.

IMPORTANT: Allow unit and engine to adjust to the outdoor temperature before clearing snow. Before shut-off, run the attachment a few minutes to prevent impeller freeze-up.

NOTE: Try out each control without the engine running to see how it works and what it does.

Manual Start

1. Turn discharge chute straight ahead.
2. Make sure that the traction clutch and attachment drive clutch levers are fully disengaged.
3. Push Primer Bulb 2 or 3 times for cold engine.

NOTE: When temperature is below -15° F (-26° C) additional priming may be needed.

4. If engine is cold, apply choke. See Engine Manual for detailed instructions.

NOTE: A warm engine requires less choking than a cold engine.

5. Set throttle to proper starting position.
6. Insert key into ignition switch.

 12V - Turn key to RUN position.

 120V or 240V - Push key into RUN position. DO NOT twist key after it is inserted.
7. Grasp starter handle and pull rope out slowly until it pulls harder. Let rope rewind slowly.
8. Pull rope with a rapid continuous full arm stroke. Let rope rewind slowly.

IMPORTANT: DO NOT let Starter Handle snap against Starter.

9. Repeat steps 7 and 8 until engine starts. (If engine does not start, refer to *TROUBLESHOOTING* on page 30.)
10. Adjust choke as needed.
11. Set throttle to Part Throttle or Slow position for adaptation to outside temperature or travel. Set throttle to Fast position for normal operation.

Electric Start (120V or 240V)

1. Connect extension cord to starter.

IMPORTANT: Prevent damage to unit. Know voltage of your starter and only use matching outlets.

2. Plug extension into 120V or 240V 3-wire, grounded outlet.
3. Turn discharge chute straight ahead.
4. Make sure that the traction clutch and attachment drive clutch levers are fully disengaged.
5. Push Primer Bulb 2 or 3 times for cold engine.

NOTE: When temperature is below -15° F (-26° C) additional priming may be needed.

6. Insert key into ignition switch on engine and push into "Run" position. DO NOT twist key after it is inserted.
7. If engine is cold, apply choke. A warm engine requires less choking than a cold engine. See Engine Manual for detailed instructions.
8. Set throttle to proper starting position.
9. Press starter button on engine until engine starts.

IMPORTANT: DO NOT operate starter more than 15 seconds per minute, as overheating and damage can occur. (If engine does not start, refer to *TROUBLESHOOTING* on page 30.)

10. Adjust choke as needed.
11. Disconnect power cord from outlet, then starter.
12. Set throttle to Part Throttle or Slow position for adaptation to outside temperature or travel. Set throttle to Fast position for normal operation.

Electric Start (12V)

1. Turn discharge chute straight ahead.
2. Make sure that the traction clutch and attachment drive clutch levers are fully disengaged.
3. Push Primer Bulb 2 or 3 times for cold engine.

NOTE: When temperature is below -15° F (-26° C) additional priming may be needed.

4. If engine is cold, apply choke. See Engine Manual for detailed instructions.

NOTE: A warm engine requires less choking than a cold engine.

5. Set throttle to proper starting position.
6. Turn ignition key to the START position until engine starts and release into the RUN position.

IMPORTANT: DO NOT operate starter more than 15 seconds per minute, as overheating and damage can occur. (If engine does not start, refer to *TROUBLESHOOTING* on page 30.)

7. Adjust choke as needed.
8. Set throttle to Part Throttle or Slow position for travel or adaptation to outside temperature. Once achieved, set throttle to Fast position for normal operation.

Shut Off

1. Release Traction Drive Clutch Lever and allow unit to come to a complete stop.
2. Run Impeller a few minutes after use to prevent freeze-up of Impeller.
3. Release Attachment Clutch Lever and wait for all moving parts to come to a complete stop.
4. Move Throttle to the “Stop” position.
5. Remove key.

SNOW REMOVAL

IMPORTANT: Allow unit and engine to adjust to the outdoor temperature before clearing snow.

NOTE: Attachment clutch should be engaged before wheel drive clutch when throwing snow.

1. Select Speed Control position and direction.
2. Engage Attachment Clutch - Right Hand Lever.
3. Engage Traction Drive Clutch - Left Hand Lever.

IMPORTANT: DO NOT overload unit capacity by attempting to clear snow at too fast a rate. Use slow speed to clear deep or hard packed snow.

Tips for Operation

Snow is best removed as soon as possible after snow fall.

To clear an area, run unit in an overlapping series of paths. For large areas, start in the middle and throw snow to each side, so snow is not cleared more than once.

ALWAYS direct snow away from area to be cleared and with direction of the wind.

TRAVELING

To travel from one work area to another:

1. Set Throttle to Slow or Part-Throttle position.
2. Press down on handlebars enough to raise front of unit slightly off surface.
3. Engage wheel drive clutch without engaging attachment drive clutch.

TRANSPORT

ALWAYS shut off engine, remove key, and close fuel shut-off valve when transporting unit on a truck or trailer.

Use extra care when loading or unloading unit onto trailer or truck.

Secure unit chassis to transport vehicle. NEVER secure from rods or linkages that could be damaged.

DO NOT transport machine while engine is running.

MAINTENANCE

Ariens Dealers will provide any service or adjustments which may be required to keep your unit operating at peak efficiency. Should engine service be required, contact an Ariens dealer or an authorized engine manufacturer's service center.

WARNING: AVOID INJURY. Read and understand the entire *Safety* section before proceeding.

SERVICE POSITION

WARNING: Before tipping unit up onto housing, remove fuel so no spills will occur and remove battery (if equipped). Ensure unit is secure and will not tip over during maintenance.

Place unit on a flat level surface. Tip unit forward onto front of auger housing for service. Ensure unit is secure and will not tip over. Strap and clamp onto bench if needed.

Service Position

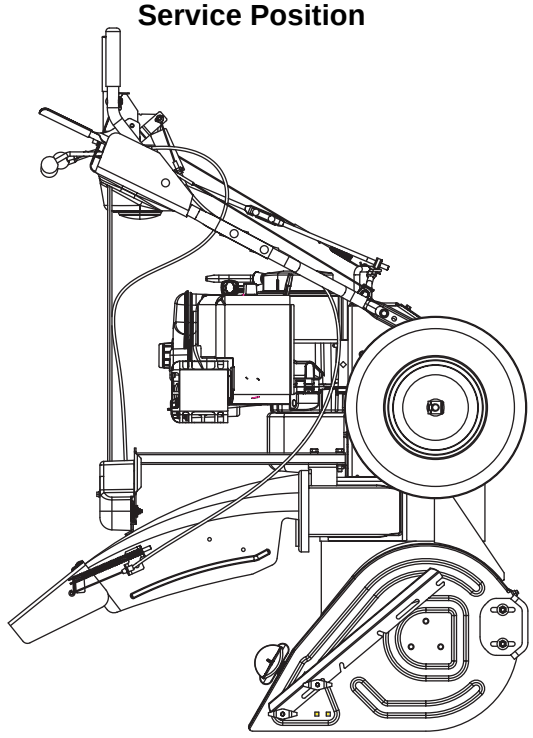


Figure 16

OS7120

MAINTENANCE SCHEDULE

The chart below shows the recommended maintenance schedule that should be performed on a regular basis. More frequent service may be required.

MAINTENANCE SCHEDULE				
Service Performed	Each Use	Every 5 hrs.	Every 25 hrs.	Yearly
Check Dual Handle Interlock	•			
Check Fasteners	•			
Check Clutch Operation	•			
Check Clutch Spring Adjustments		*	•	
Clean Engine	•			
Check Engine Oil		•		
Change Engine Oil		**	•	
Check Tire Pressure			•	
Check Auger Gearcase			•	•
General Lubrication			•	•
Battery Maintenance			•	•

* After first five hours of operation.

** After first two hours of operation.

CHECK DUAL HANDLE INTERLOCK

Without the engine running, press down (engage) both clutch levers. Release attachment clutch lever. Attachment clutch should remain engaged until traction clutch lever is released, then both clutches *must* disengage.

CHECK FASTENERS

Make sure all hardware is tightened properly.

CHECK CLUTCH OPERATION

Auger / impeller must stop within 5 seconds when attachment clutch/impeller brake lever is released.

Wheels must stop quickly when traction drive clutch lever is released.

If clutches do not engage or disengage properly, adjust or repair before operation (see *SERVICE AND ADJUSTMENTS* on page 22).

CHECK CLUTCH SPRING ADJUSTMENT

Make sure the attachment clutch and traction drive clutch are adjusted to the range specified in *Attachment Clutch/Brake Adjustment* on page 25.

CLEAN ENGINE

Refer to Engine Manual for detailed instructions.

CHECK ENGINE OIL

The engine crankcase oil should be checked every 5 hours of operation. Oil level MUST be maintained in safe operating range on dipstick at all times or engine damage will result (See Engine Manual).

Park unit on a level surface. Refer to Engine Manual for detailed instructions.

CHANGE ENGINE OIL

Change oil after first 2 hours of operation, thereafter change oil every 25 hours (more often if required). Refer to Engine Manual for detailed instructions.

Run engine just prior to changing oil. Warm oil will flow more freely and carry away more contamination. Remove the oil drain plug from the rear of the unit and tip the unit back to help drain all the oil.

CHECK TIRE PRESSURE

Keep tires at pressure listed on the tire sidewall.

CHECK AUGER GEARCASE

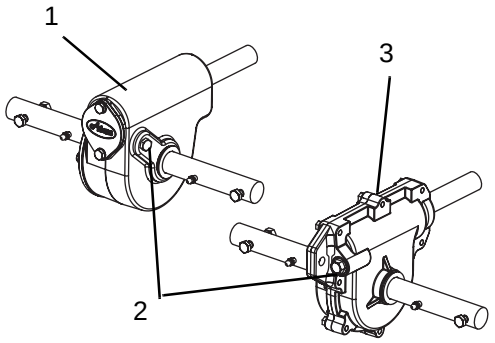
IMPORTANT: Proper oil level must be maintained.

Gear cases are filled to the correct level at the factory. Unless there is evidence of leakage, no additional lubricant should be required. Check oil level each season or every 25 hours of operation.

To ensure adequate lubricant level:

1. Remove filler plug (Figure 17). Lubricant must be at least up to bottom of lubricant filler hole with unit resting on a level-surface.
2. Add lubricant if required. Allow oil to drain to level of plug and replace plug.

IMPORTANT: Use only Ariens special gear lubricant L-2 (Part Number 00008000). Gearcase filler plug may require an application of Loc-Tite® 565 thread sealant with repeated servicing.



1. Auger Gearcase - Cast Iron
2. Oil Fill and Drain Plug
3. Auger Gearcase - Aluminum

Figure 17 OS7130

GENERAL LUBRICATION

IMPORTANT: Wipe each fitting clean before and after lubrication. Do not wipe gearcase filler plug; wiping the gearcase filler plug may remove thread sealant and cause leaks.

IMPORTANT: DO NOT allow grease or oil to get on friction disc, friction plate or belts.

NOTE: Apply Stens Mix Hi-Temp Grease or equivalent to the lubrication fittings. See *SERVICE PARTS* on page 29.

Sno-Thro should be lubricated (Figure 18) at beginning of season or every 25 operating hours.

Auger Shaft

NOTE: To grease auger shaft, remove shear bolt nuts, and shear bolts. Turn auger on shaft while applying grease at zerk fittings. Replace shear bolts per instructions in *SERVICE AND ADJUSTMENTS* on page 22.

CLEAN BATTERY (926500, 501)

WARNING: AVOID INJURY. Read and understand the entire *Safety* section before proceeding.

IMPORTANT: Battery is maintenance-free. Do not tamper with or attempt to open battery. See *SERVICE AND ADJUSTMENTS* on page 22 for charging procedures.

Terminals

Keep battery and its terminals clean.

IMPORTANT: Remove battery from unit before cleaning.

Remove corrosion from battery terminals and cable connections with a wire brush, then wash with a weak baking soda solution.

After cleaning, apply a thin coat of grease or petroleum jelly to terminals and cable ends to retard corrosion.

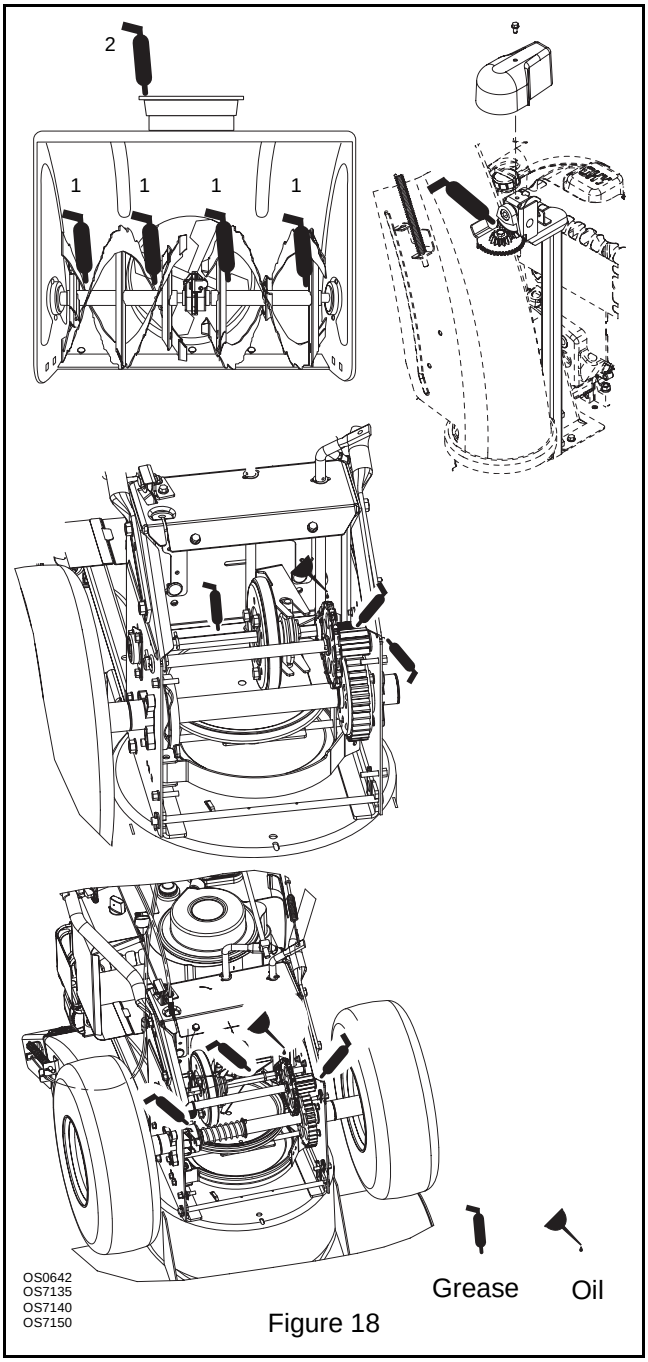


Figure 18

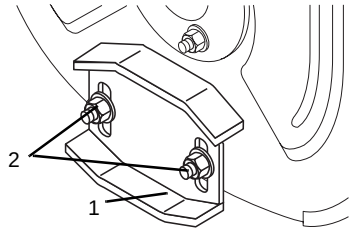
WARNING: AVOID INJURY. Read and understand the entire *Safety* section before proceeding.

RUNNERS

Runners should be adjusted as conditions require (Figure 19).

1. Position unit on a hard, flat, smooth level surface.
2. Adjust runners by inserting a spacer of desired thickness under center of scraper blade, loosen runner hardware, slide runners to flat surface. Allow 1/8 in. (3 mm) between scraper blade and hard smooth surfaces. Allow 1-1/4 in. (30 mm) between scraper blade and uneven or gravel surfaces. Retighten hardware.

NOTE: Keep housing level by adjusting runners equally.



1. Runner
2. Runner Hardware

OS0482

Figure 19

SCRAPER BLADE

IMPORTANT: Damage to auger/impeller housing will result if blade wears down too far.

Scraper blade is adjustable to compensate for wear.

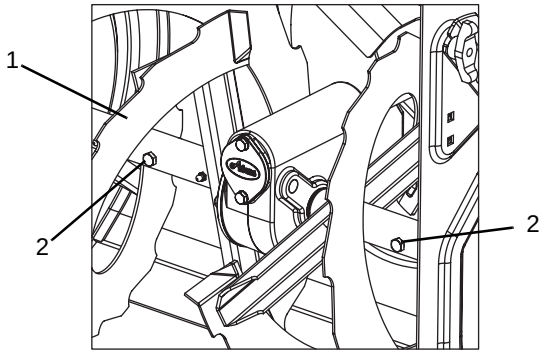
To adjust scraper blade:

1. Tip unit back onto handlebar, support housing and loosen nuts retaining blade.
2. Adjust runners to fully raised position (housing closest to ground).
3. Reposition scraper blade flush with runners and tighten lock nuts.

SHEAR BOLTS

IMPORTANT: Use only Ariens shear bolts for replacement. Use of any other type of shear bolt may result in severe damage to unit.

Occasionally a foreign object may enter the auger/impeller housing and jam the auger, breaking shear bolts (Figure 20) which secure the auger to the shaft. This allows auger to turn freely on the shaft preventing damage to gear drive.



1. Auger
2. Shear Bolts

OS7150

Figure 20

For Replacement:

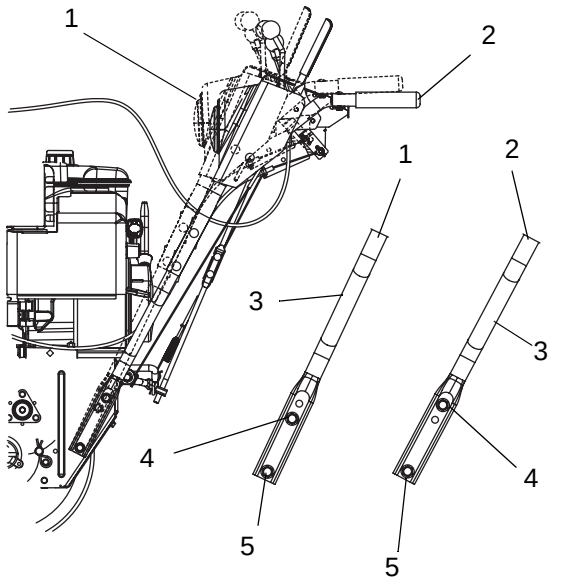
1. Align shear bolt holes in auger with shear bolt holes in the shaft.
2. Drive shear bolt through hole (if shear bolt was broken this will drive remaining part from shaft).
3. Secure shear bolt with nut.

HANDLEBAR HEIGHT

CAUTION: AVOID INJURY. Adjust the attachment clutch, speed selector and traction clutch after changing the handlebar height. See *Attachment Clutch/Brake Adjustment* on page 25, *Speed Selector Adjustment* on page 25 and *Traction Drive Clutch Adjustment* on page 26.

To raise or lower the handlebar:

1. Remove hair pin holding chute rod to control assembly.
2. Place unit in service position (see *Service Position* on page 19).
3. Remove bottom cover.
4. Remove top mounting bolts from the handlebars and adjust the handlebar up or down as needed until the handlebar mounting holes align with holes in unit frame.
5. Secure handlebar to frame with hardware removed in step 4 using the different hardware locations shown in Figure 21.

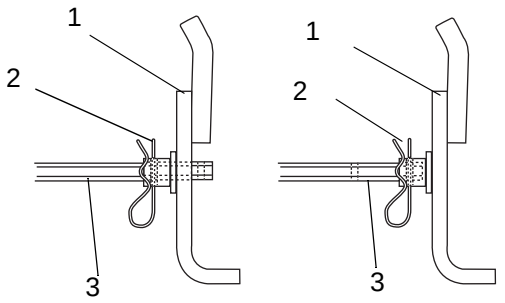


1. Upper Position
2. Lower Position
3. Handlebar
4. Upper Mounting Bolt
5. Lower Mounting Bolt

Figure 21 OS7155

NOTE: Insert the hair pin with the loop end on the left side of the chute rod so the control lever will cover its full range of travel.

6. Align correct chute rod holes in chute control assembly as shown in Figure 22, and then secure chute rod in position with hair pin remove in step 1.



1. Chute Control Assembly
2. Hair Pin
3. Chute Rod

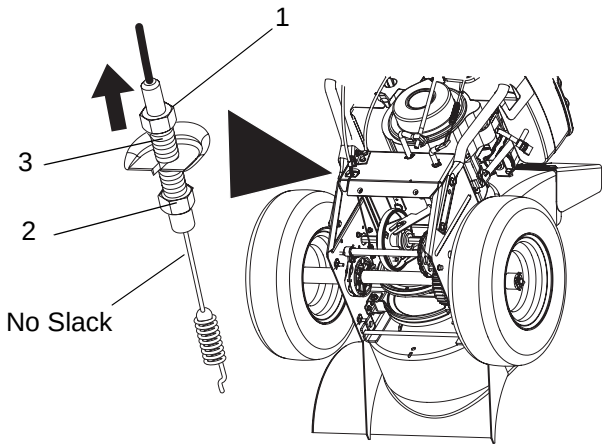
Figure 22 OS7160

7. Check and adjust attachment clutch, speed selector and traction clutch. See *Attachment Clutch/Brake Adjustment* on page 25, *Speed Selector Adjustment* on page 25 and *Traction Drive Clutch Adjustment* on page 26.
8. Re-install bottom cover.

REMOTE DIFFERENTIAL (926004, 005, 006, 300, 301, 500, 501)

If remote differential does not lock:

1. Place unit in service position (see *Service Position* on page 19).
2. Remove bottom cover.
3. Loosen jam nuts on cable. Make sure the bottom jam nut is loosened enough to remove slack from cable.
4. Pull the cable adjuster to remove slack between the cable adjuster and the extension spring and hold the cable adjuster in position while tightening the top jam nut against the unit frame. Do not extend the spring or engage the mechanism.
5. Tighten the bottom jam nut.
6. Re-install bottom cover.
7. Check function of remote differential. If remote differential does not function properly, take unit to Dealer for repairs.



1. Top Jam Nut
2. Bottom Jam Nut
3. Cable Adjuster

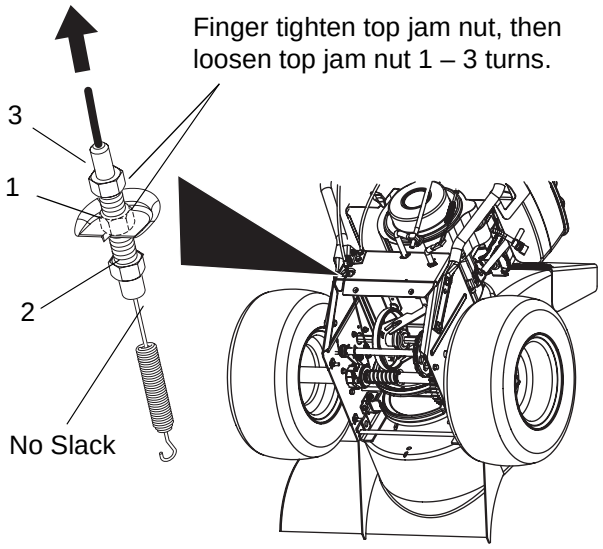
Figure 23 OS7165

REMOTE WHEEL LOCK (926002, 003, 102, 103, 302, 303, 304)

If remote wheel lock does not lock or unlock:

1. Place unit in service position (see *Service Position* on page 19).
2. Remove bottom cover.
3. Loosen jam nuts on cable. Make sure the bottom jam nut is loosened enough to remove slack from cable.
4. Pull the cable adjuster to remove slack between the cable adjuster and the extension spring and hold the cable adjuster in position while finger tightening the top jam nut against the unit frame. Do not extend the spring or engage the mechanism.

5. Loosen the top jam nut 1 – 3 turns.
6. Tighten the bottom jam nut.
7. Re-install bottom cover.
8. Check function of remote wheel lock. If wheel lock does not function properly, take unit to Dealer for repairs.



1. Top Jam Nut
2. Bottom Jam Nut
3. Cable Adjuster

Figure 24 OS7170

DEFLECTOR REMOTE

Deflector must stay in selected position while throwing snow.

If deflector does not stay in set position:

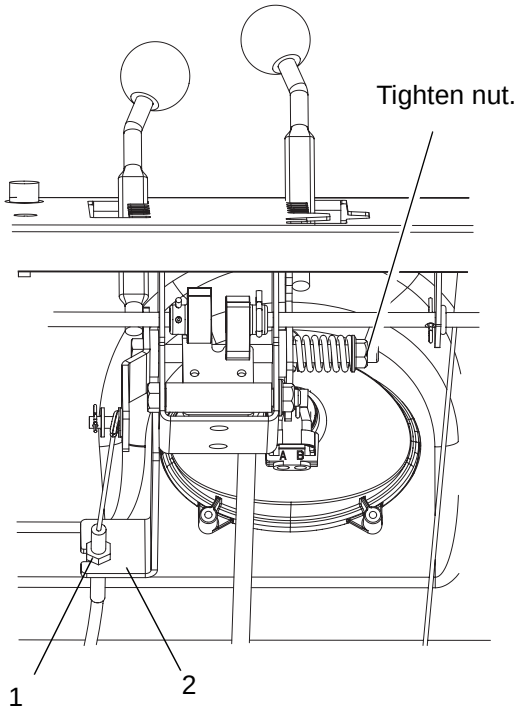
1. Tighten nut beneath control panel to increase pressure on deflector control (Figure 25).

If deflector does not follow full range of travel:

1. Push deflector remote all the way forward.
2. Loosen adjusting nuts on cable support bracket underneath the dash panel (Figure 25).
3. To adjust the deflector lower:

 Slide cable down. Tighten bottom nut.
4. To adjust deflector higher:

 Slide cable up. Tighten top nut.
5. Check travel and repeat adjustment as necessary.



1. Adjusting Nuts
2. Cable Support Bracket

Figure 25 OS7175

DISCHARGE CHUTE

If chute does not stay in position while throwing snow or if chute does not rotate freely, adjust the cable under the control panel so the chute lock fingers engage or disengage the locking gear.

If chute does not stay in position:

Loosen the cable by loosening the lower adjustment nut, and then tightening the upper adjustment nut against the bracket (Figure 26).

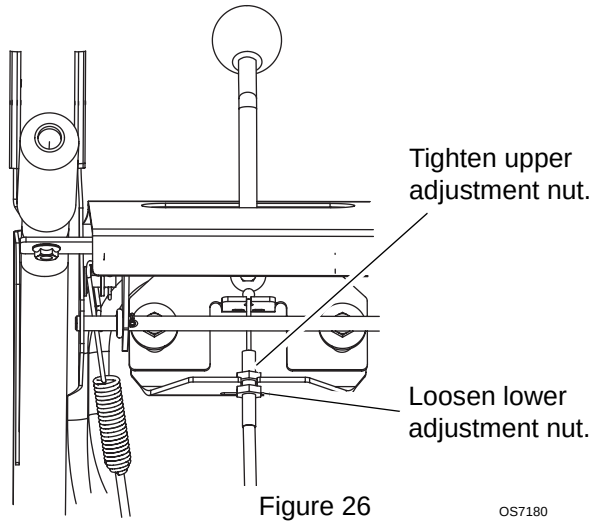


Figure 26 OS7180

If chute does not rotate freely:

Tighten the cable by loosening the upper adjustment nut, and then tightening the lower adjustment nut against the bracket (Figure 27).

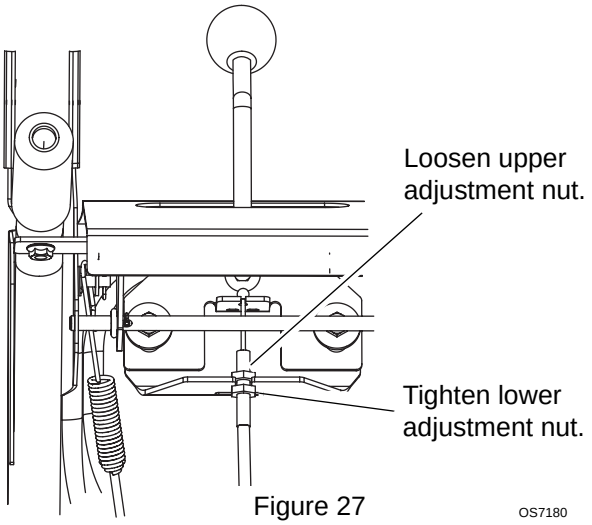


Figure 27

SPEED SELECTOR ADJUSTMENT

To adjust (Figure 28):

1. Place unit into service position.
2. Disconnect adjustment pivot pin from speed selector lever.
3. Place the speed selector in the fastest forward speed position.
4. Turn the speed selector lever straight down towards the ground as far as it will go.
5. Thread the adjustment pivot pin along the shift rod until it aligns with the mating hole on the speed selector lever. Insert the pivot pin into hole.
6. Secure adjustment pivot pin with hairpin.
7. Make sure the speed selector shifts into each speed position.

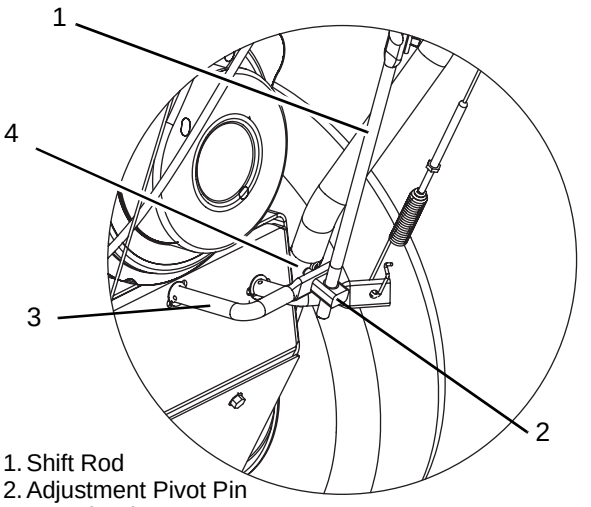


Figure28

ATTACHMENT CLUTCH/BRAKE ADJUSTMENT

(Figures 29, 30 and 31)

IMPORTANT: IMPROPER ADJUSTMENT could result in unexpected movement of auger and impeller causing death or serious injury. Auger / impeller must stop within 5 seconds when Attachment Clutch/Impeller Brake lever is released.

1. Measure spring extension.
 a. Measure the length of the clutch cable spring.
 b. While holding the attachment clutch lever against the handlebar, measure the length of the spring again. The spring should be 1/2-11/16 in. (12.7-17.5 mm) longer when the lever is engaged.

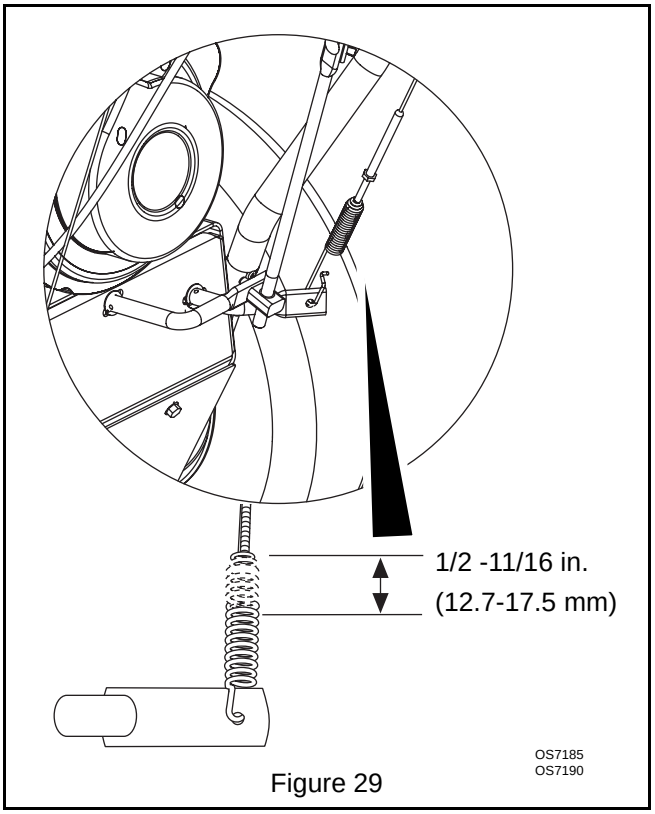
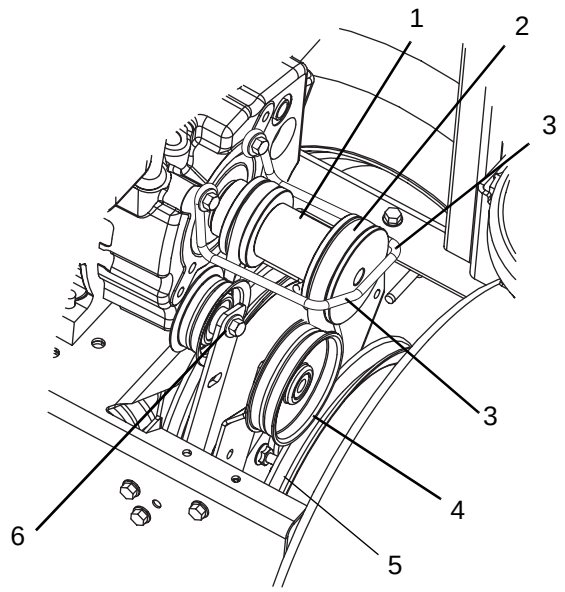


Figure 29

2. Reposition the idler on the attachment belt idler arm to adjust the spring extension, if necessary.
 a. Remove belt cover and loosen idler adjustment nut.
 b. To increase spring extension, move idler closer to the engine sheave.
 c. To decrease spring extension, move idler farther from the engine sheave.
 d. Tighten the idler adjustment nut.

NOTE: Moving the idler approximately 1/8 in. (3 mm) will change the spring extension approximately 1/8 in. (3 mm).



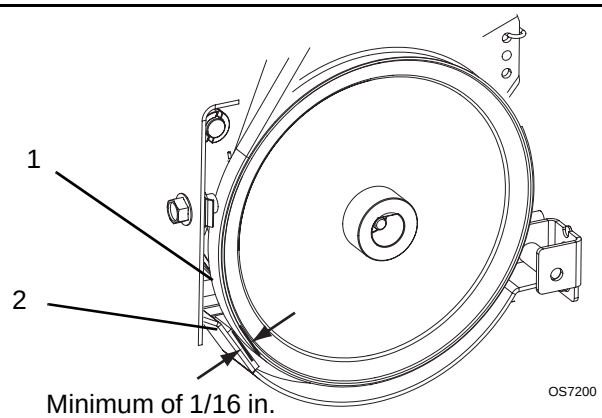
1. Engine Sheave
2. Attachment Drive Belt
3. Belt Finger
4. Attachment Belt Idler
5. Attachment Pulley
6. Attachment Idler Adjustment Nut

Figure 30 OS7195

3. Check brake.

 When the clutch lever is disengaged, the brake must contact attachment belt.

 When the clutch lever is engaged, the brake must be more than 1/16 in. (1.6 mm) away from the belt (Figure 31).



1. Drive Belt
2. Brake Shoe and Pad

Figure 31

4. Repeat steps 1 – 3 until spring extension and brake clearance are within specified range.
5. Check belt finger clearance (Figure 34).

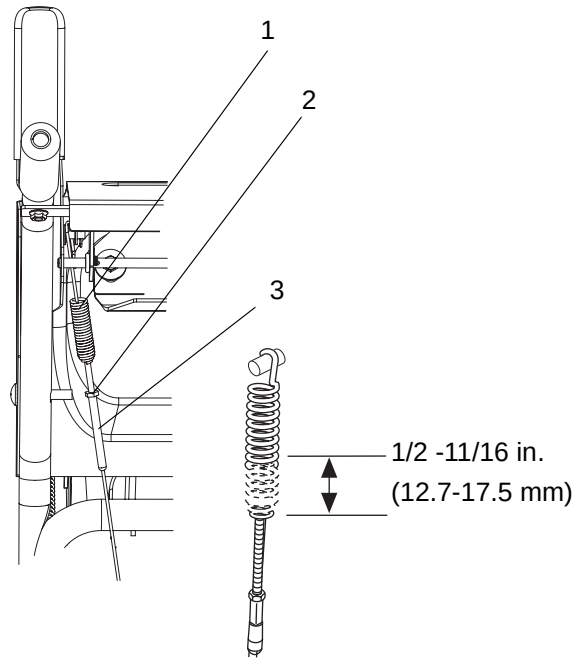
 With clutch lever engaged, belt finger on the side opposite the belt idler should be less than 1/8 in. (3 mm) from belt, but not touching the belt. Adjust belt finger as necessary.
6. Replace bottom cover.
7. Replace belt cover.

TRACTION DRIVE CLUTCH ADJUSTMENT

If drive slips, adjust traction clutch to compensate for friction disc wear.

To adjust traction clutch:

1. Place speed selector in fastest forward speed.
2. Place unit in service position.
3. Measure the length of the traction drive clutch spring at the top of the traction cable. See Figure 32.
4. Engage and hold the traction drive clutch lever and measure the spring again. The spring should be 1/2 -11/16 in. (12.7-17.5 mm) longer when the lever is engaged.



1. Traction Drive Clutch Spring
2. Jam Nut
3. Adjuster Body

OS7205
OS7210

Figure 32

5. Adjust spring extension.
 a. With the traction drive clutch lever disengaged, loosen the jam nut on the cable adjuster.
 b. Turn the adjuster body up the cable for more spring extension.
 c. Turn the adjuster body down the cable for less spring extension.
 d. Finger tighten the jam nut, and then hold the adjuster body with pliers and tighten the jam nut with wrench.
6. Measure the extension of the traction drive clutch spring.
7. Repeat step 5 until traction drive clutch spring lengthens 1/2 -11/16 in.(12.7-17.5 mm) when the traction drive clutch lever is engaged.
8. With the clutch disengaged, check that there is more than 1/32 in. (0.8 mm) clearance between friction disc and drive plate assembly.

IMPORTANT: If spring length cannot be adjusted within specified range, see your Dealer for repairs.

ATTACHMENT DRIVE BELT REPLACEMENT

Remove old attachment drive belt:

1. Shut off engine and allow to cool completely.
2. Remove belt cover (Figure 33).
3. Remove hair pin under the control panel connecting the discharge chute rod from the chute rotation lever and slide the discharge chute rod forward.

IMPORTANT: Disconnect chute lock cable and deflector cable, if equipped.

4. Remove belt finger (Figure 34).

IMPORTANT: Use care when rotating the belt fingers. DO NOT bend belt fingers out of shape.

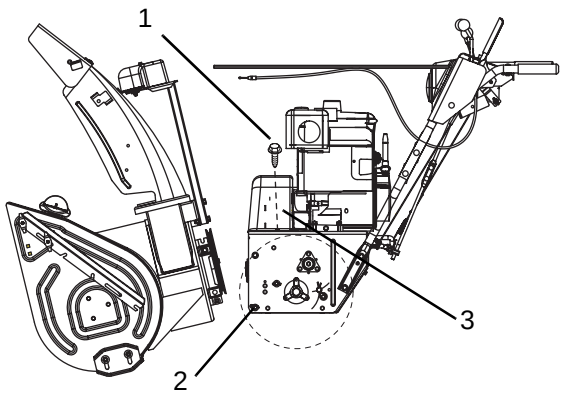
5. Remove attachment drive belt from engine sheave (it may be necessary to turn engine sheave using recoil starter handle).

IMPORTANT: To avoid bending bottom cover when tipping unit apart, support handlebars firmly or tip unit up on housing and remove bottom cover by removing six cap screws before separating unit.

6. Support Sno-Thro frame and housing.

> **CAUTION:** Always support Sno-Thro frame and blower housing when loosening the cap screws holding them together. Never loosen cap screws while unit is in service position.

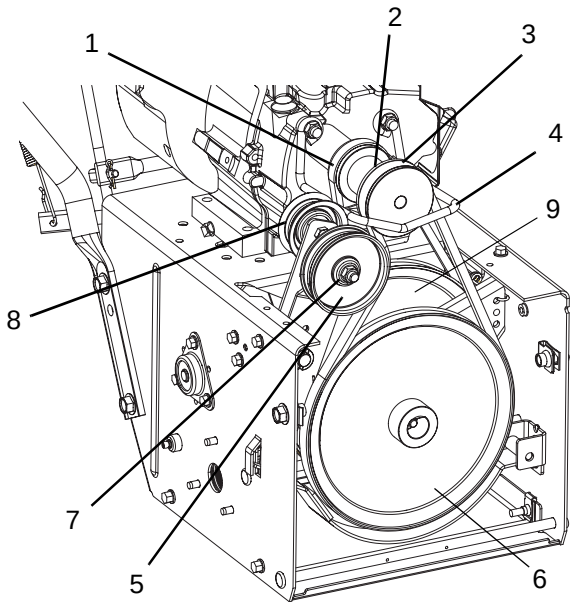
7. Remove hex bolts securing housing to frame (three on each side). Tip housing and frame apart on pivot pins (Figure 33).
8. Remove attachment drive belt from attachment pulley (hold brake away from belt).



1. Pivot Pin
2. Housing Cap Screws
3. Belt Cover

OS7215

Figure 33



1. Traction Drive Belt
2. Engine Sheave
3. Attachment Drive Belt
4. Belt Finger
5. Attachment Belt Idler
6. Attachment Pulley
7. Attachment Idler Adjustment Nut
8. Traction Belt Idler
9. Traction Drive Pulley

OS7220

Figure 34

Install new attachment drive belt:

1. Place new attachment belt onto attachment pulley.

NOTE: Holding down the attachment clutch lever will make it easier to reconnect the housing and frame.

2. Tip housing and frame back together and secure with hex bolts.
3. Place belt onto engine sheave.
4. Reposition and secure belt fingers.

IMPORTANT: With clutch lever engaged, belt finger on the side opposite the belt idler should be less than 1/8 in. (3 mm) from belt, but not touching the belt. Adjust belt finger as necessary.

5. Check adjustment. *See Attachment Clutch/Brake Adjustment* on page 25.

WARNING: AUGER / IMPELLER MUST STOP within 5 seconds when attachment clutch lever is released or unit damage or serious injury may result.

6. Reconnect chute crank and secure with spring clip. Reconnect chute lock cable and deflector cable.
7. Replace belt cover.

TRACTION DRIVE BELT REPLACEMENT

NOTE: Replacement will be easier with housing and frame tipped apart and bottom cover off.

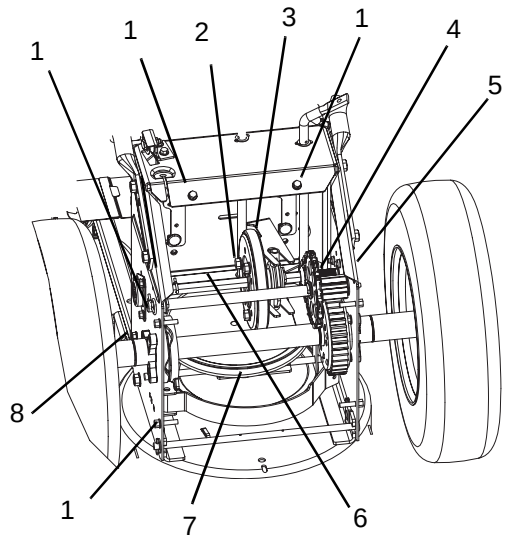
1. Remove attachment drive belt (see *Attachment Clutch/Brake Adjustment* on page 25).
2. To gain belt clearance, back out the stop bolt from the frame until the drive plate assembly can swing past it (Figure 35).
3. Pull idler away from traction drive belt and remove belt from idler pulley, engine sheave and driven pulley (it may be necessary to turn engine pulley using recoil handle).
4. Install new traction drive belt onto attachment pulley and engine sheaves.
5. Pull the drive plate assembly toward the friction disc and tighten the stop bolt.

NOTE: Make sure the drive plate assembly return spring remains connected to the frame.

6. Replace attachment drive belt (See *Replace Attachment Drive Belt*).

FRICTION DISC REPLACEMENT

1. Place unit into service position.
2. Remove bottom cover by removing six hex bolts.
3. With axle locked, hold one wheel so friction disc will not rotate and remove three cap screws holding friction disc to carrier.
4. Remove both wheels.
5. Remove right and left bearing flanges from frame.
6. Slide hex shaft to the left enough to remove pinion sprocket from hex shaft.
7. Slide hex shaft to the right enough to remove friction disc.
8. Slide new friction disc onto hex shaft.
9. Install pinion sprocket and chain on hex shaft, then replace bearing flanges.
10. Hold wheel so friction disc will not rotate and secure new friction disc to carrier with three hex screws removed in step 3.
11. Replace wheels.
12. Replace bottom cover.
13. Adjust traction drive clutch (see *Traction Drive Clutch Adjustment* on page 26).



1. Cap Screw
2. Hex Screw
3. Friction Disc
4. Pinion Sprocket
5. Bearing Cap
6. Idler Hex Shaft
7. Drive Plate Assembly
8. Stop Bolt

Figure 35 OS7225

BATTERY (926500, 501)

Charging

1. Place unit on a level surface and shut off engine.
2. Disconnect negative (-) cable first, then positive (+) cable.
3. Loosen wing nut and remove battery. Place battery on bench or other well ventilated place.
4. Connect positive (+) lead of charger to positive (+) terminal, and negative (–) lead to negative (–) terminal.
5. Charge the battery at two and a half amps for ten hours.
6. Reinstall battery into unit and connect positive (+) cable first, then negative (-) cable.

Replacing

Use U1R or U1L; 240 CCA minimum @ 0°F type batteries.

STORAGE

WARNING: AVOID INJURY. Read and understand the entire *Safety* section before proceeding.

SHORT TERM

IMPORTANT: NEVER spray unit with high pressure water or store unit outdoors.

Run with attachment clutch engaged a few minutes after each use to free unit of any loose or melting snow.

Close fuel shut-off valve.

Inspect unit for visible signs of wear, breakage or damage.

Keep all nuts, bolts and screws properly tightened and know unit is in safe working condition.

Store unit in a cool, dry protected area.

LONG TERM

Clean unit thoroughly with mild soap and low pressure water and lubricate (see Maintenance). Touch up all scratched painted surfaces.

Remove weight from wheels by putting blocks under frame or axle.

When storing unit for extended periods of time, remove all fuel from tank and carburetor (run dry). Refer to Engine Manual.

SERVICE PARTS

Order the following parts through your Dealer:

Part No.	Description
00036800	Stens Mix Hi-Temp Grease (3, 3 oz. cartridges)
21533500	Spark Plug
07200020	Impeller Belt (926001, 002, 004, 005, 101, 102, 300, 301, 304, 504, 505)
07200021	Impeller Belt (926003, 006, 103, 302, 303, 500, 501)
07200101	Traction Belt (926001, 002, 004, 005, 101, 102, 300, 301, 304, 504, 505)
07200102	Traction Belt (926003, 006, 103, 302, 303, 500, 501)
00170800	Friction Disc
51001500	Shear Bolt Kit

ACCESSORIES

See your authorized Ariens dealer to add the additional accessories available to your Sno-Thro.

Part No.	Description
72403600	120 Volt Starter Kit
72402200	240 Volt Starter Kit*
72406500	Front Weight Kit

*Available in CE countries.

TROUBLESHOOTING

PROBLEM	PROBABLE CAUSE	CORRECTION
Engine will not crank/start.	1. Fuel tank is empty. 2. Fuel shut-off valve closed. 3. Build up of dirt and residue around governor/carburetor. 4. Key Switch not in run position. 5. Ignition switch starter circuit not functioning. 6. Battery discharged, wires loose. 7. Fuse on wiring wiring harness blown. 8. Electric starter not functioning.	1. Fill fuel tank. 2. Open fuel shut-off valve. 3. Clean area around governor/carburetor. 4. Put Key Switch into run position. 5. Check for a bad starter or connections. 6. Check battery and connections. 7. Replace fuse. 8. Check for a bad starter or connections.
Engine stops.	1. Out of fuel. 2. Fuel shut-off valve closed. 3. Mechanical jam in blower rake or impeller. 4. Polluted fuel supply. 5. Faulty spark plug.	1. Fill fuel tank. 2. Open fuel shut-off valve. 3. Turn off engine, remove key, and wait for all moving parts to stop. Check for and remove obstruction and repair before restart. 4. Replace with clean fuel. 5. Replace or clean spark plug.
Engine problems.	1. See Engine Manual.	
Does not operate in Forward / Reverse.	1. Friction disc not adjusted properly. 2. Traction belt not functioning. 3. Speed selector not adjusted properly.	1. Repair or replace friction disc. *See Friction Disc Replacement* on page 28. 2. Repair or replace traction drive belt. *See Traction Drive Belt Replacement* on page 28. 3. Adjust speed selector. *See Speed Selector Adjustment* on page 25.
Small rubber beads collect in frame	1. Friction disc wear.	1. Normal friction disc wear. Chunks or large pieces of rubber mean friction disc should be checked and replaced as necessary.
Unit throws snow poorly or does not throw snow.	1. Shear bolts broken. 2. Attachment clutch/brake not adjusted properly. 3. Auger is frozen in place. 4. Ice or debris is obstructing auger. 5. Attachment drive belt slipping, worn or damaged.	1. Replace shear bolts *(see Shear Bolts* on page 22). 2. Adjust attachment clutch/brake *(see Attachment Clutch/Brake Adjustment* on page 25). 3. Move unit to a warm place to thaw. 4. With the engine off and auger disengaged, check for obstructions and remove. 5. Adjust or replace attachment drive belt *(see Attachment Clutch/Brake Adjustment* on page 25).

SPECIFICATIONS						
Model Number	926001	926002	926003	926004	926005	926006
Description	ST926LE	ST11528LE	ST1332LE	ST926DLE	ST11526DLE	ST1328DLE
Engine - Tecumseh	LH318SA	OH318SA	OH358SA	OH318SA	OH318SA	OH358SA
Power Max - HP (kW)	9.0 (6.7)	11.5 (8.6)	13.0 (9.7)	9.0 (6.7)	11.5 (8.6)	13.0 (9.7)
Fast Idle Speed - RPM (min^{-1})	3600 ± 150					
Displacement - in. (cc)	19.4 (318)	19.4 (318)	19.4 (318)	19.4 (318)	19.4 (318)	21.8 (358)
Electric Start	120V	120V	120V	120V	120V	120V
Fuel	See Engine Manual					
Tank Capacity - qt (Liters)	4 (3.8)	4 (3.8)	4 (3.8)	4 (3.8)	4 (3.8)	4 (3.8)
Snow Clearing Width - in. (cm)	26 (66.0)	28 (71.2)	32 (81.3)	26 (66.0)	26 (66.0)	28 (71.2)
Chute						
Rotation Angle	200°					
Rotation Control at Handlebar	Yes					
Remote Deflector Control	Yes					
Impeller						
Diameter - in. (cm)	14 (35.6)					
Speed - RPM-Max (min^{-1})	1209					
Auger						
Diameter - in. (cm)	16 (40.6)					
Speed - RPM- Max (min^{-1})	121					
Auger Brake	Yes					
Attachment Clutch	Yes					
Drive	Disc-O-Matic					
Speeds	6 Forward and 2 Reverse					
Lock Out Differential	Pin-Lock	Remote Wheel Lock	Remote Wheel Lock	Remote Differential	Remote Differential	Remote Differential
Pneumatic Tires - in. (cm)	15/5 x 6 (38.1/12.7 x 15.2)	15/5 x 6 (38.1/12.7 x 15.2)	16/6.5 x 8 (40.6/16.5 x 20.3)	16/6.5 x 8 (40.6/16.5 x 20.3)	16/6.5 x 8 (40.6/16.5 x 20.3)	16/6.5 x 8 (40.6/16.5 x 20.3)
Size and Weight						
Length - in. (cm)	61.5 (156)	61.5 (156)	61.5 (156)	61.5 (156)	61.5 (156)	61.5 (156)
Height - in. (cm)	45 (114.3)	45 (114.3)	45 (114.3)	45 (114.3)	45 (114.3)	45 (114.3)
Width - in. (cm)	28.5 (72.4)	30.5 (77.5)	34.5 (87.6)	28.5 (72.4)	28.5 (72.4)	30.5 (77.5)
Weight - lbs (Kg)	282 (127.9)	293 (132.9)	314 (142.4)	282 (127.9)	290 (131.5)	305 (138.4)

SPECIFICATIONS						
Model Number	926101	926102	926103	926300	926301	926302
Description	926LE	11528LE	1332LE	ST11526DLE	ST926DLE	ST1332LE
Engine - Tecumseh	LH318SA	OH318SA	OH358SA	OH318SA	OH318SA	OH358SA
Power Max - HP (kW)	9.0 (6.7)	11.5 (8.6)	13.0 (9.7)	11.5 (8.6)	9.0 (6.7)	13.0 (9.7)
Fast Idle Speed - RPM (min^{-1})	3600 ± 150					
Displacement - in. (cc)	19.4 (318)	19.4 (318)	19.4 (318)	19.4 (318)	19.4 (318)	21.8 (358)
Electric Start	120V	120V	120V	240V	240V	240V
Fuel	See Engine Manual					
Tank Capacity - qt (Liters)	4 (3.8)	4 (3.8)	4 (3.8)	4 (3.8)	4 (3.8)	4 (3.8)
Snow Clearing Width - in. (cm)	26 (66.0)	28 (71.2)	32 (81.3)	26 (66.0)	26 (66.0)	32 (81.3)
Chute						
Rotation Angle	200°					
Rotation Control at Handlebar	Yes					
Remote Deflector Control	Yes					
Impeller						
Diameter - in. (cm)	14 (35.6)					
Speed - RPM-Max (min^{-1})	1209					
Auger						
Diameter - in. (cm)	16 (40.6)					
Speed - RPM- Max (min^{-1})	121					
Auger Brake	Yes					
Attachment Clutch	Yes					
Drive	Disc-O-Matic					
Speeds	6 Forward and 2 Reverse					
Lock Out Differential	Pin-Lock	Remote Wheel Lock	Remote Wheel Lock	Remote Differential	Remote Differential	Remote Wheel Lock
Pneumatic Tires - in. (cm)	15/5 x 6 (38.1/12.7 x 15.2)	15/5 x 6 (38.1/12.7 x 15.2)	16/6.5 x 8 (40.6/16.5 x 20.3)	16/6.5 x 8 (40.6/16.5 x 20.3)	16/6.5 x 8 (40.6/16.5 x 20.3)	16/6.5 x 8 (40.6/16.5 x 20.3)
Size and Weight						
Length - in. (cm)	61.5 (156)	61.5 (156)	61.5 (156)	61.5 (156)	61.5 (156)	61.5 (156)
Height - in. (cm)	45 (114.3)	45 (114.3)	45 (114.3)	45 (114.3)	45 (114.3)	45 (114.3)
Width - in. (cm)	28.5 (72.4)	30.5 (77.5)	34.5 (87.6)	28.5 (72.4)	28.5 (72.4)	34.5 (87.6)
Weight - lbs (Kg)	282 (127.9)	293 (132.9)	314 (142.4)	290 (131.5)	282 (127.9)	314 (142.4)

SPECIFICATIONS						
Model Number	926303	926304	926500	926501	926504	926505
Description	ST1328LE	ST11528LE	ST1332DLE	ST1336DLE	ST8526LE	ST8526L
Engine - Tecumseh	OH358SA	OH318SA	OH358SA	OH358SA	LH318SA	LH318SA
Power Max - HP (kW)	13.0 (9.7)	11.5 (8.6)	13.0 (9.7)	13.0 (9.7)	8.5 (6.3)	8.5 (6.3)
Fast Idle Speed - RPM (min^{-1})	3600 ± 150					
Displacement - in. (cc)	21.8 (358)	19.4 (318)	21.8 (358)	21.8 (358)	19.4 (318)	19.4 (318)
Electric Start	240V	240V	12V	12V	240V	Optional
Fuel	See Engine Manual					
Tank Capacity - qt (Liters)	4 (3.8)	4 (3.8)	4 (3.8)	4 (3.8)	4 (3.8)	4 (3.8)
Snow Clearing Width - in. (cm)	28 (71.2)	28 (71.2)	32 (81.3)	36 (91.4)	26 (66.0)	26 (66.0)
Chute						
Rotation Angle	200°					
Rotation Control at Handlebar	Yes					
Remote Deflector Control	Yes					
Impeller						
Diameter - in. (cm)	14 (35.6)					
Speed - RPM-Max (min^{-1})	1209					
Auger						
Diameter - in. (cm)	16 (40.6)					
Speed - RPM- Max (min^{-1})	121					
Auger Brake	Yes					
Attachment Clutch	Yes					
Drive	Disc-O-Matic					
Speeds	6 Forward and 2 Reverse					
Lock Out Differential	Remote Wheel Lock	Remote Wheel Lock	Remote Differential	Remote Differential	Pin-Lock	Pin-Lock
Pneumatic Tires - in. (cm)	15/5 x 6 (38.1/12.7 x 15.2)	15/5 x 6 (38.1/12.7 x 15.2)	16/6.16/6.5 x 8 (40.6/16.5 x 20.3)	16/6.5 x 8 (40.6/16.5 x 20.3)	15/5 x 6 (38.1/12.7 x 15.2)	15/5 x 6 (38.1/12.7 x 15.2)
Size and Weight						
Length - in. (cm)	61.5 (156)	61.5 (156)	61.5 (156)	61.5 (156)	61.5 (156)	61.5 (156)
Height - in. (cm)	45 (114.3)	45 (114.3)	45 (114.3)	45 (114.3)	45 (114.3)	45 (114.3)
Width - in. (cm)	30.5 (77.5)	30.5 (77.5)	34.5 (87.6)	38.5 (97.8)	28.5 (72.4)	28.5 (72.4)
Weight - lbs (Kg)	309 (140.1)	293 (132.9)	335 (151.9)	356 (161.5)	282 (127.9)	277 (125.6)

Ariens Limited Warranties

2-Year Limited Lawn and Garden Consumer Warranty

Ariens Company (Ariens) warrants to the **original purchaser** that Ariens and Gravely brand consumer products manufactured by Ariens Company will be free from defects in material and workmanship for a period of two (2) years after the date of purchase, and that Ariens will repair any defect in material or workmanship, and repair or replace any defective part, subject to the conditions, limitations and exclusions set forth herein. Such repair or replacement will be free of charge to the **original purchaser** (labor and parts), except as noted below.

The two-year duration of this warranty applies only if the product is put to ordinary, reasonable, and usual personal, family, or household uses. If the product is put to any business, commercial, or industrial use such as, but not limited to, commercial landscaping, mowing or snow removal services, or golf course or park maintenance, or agricultural or farmstead use, then the duration of this warranty is ninety (90) days after the date of purchase, or one (1) year after the date of purchase if the product is labeled as a Professional/Commercial Product. The duration of this warranty shall be ninety (90) days after the date of purchase if any product is rented or leased.

2-Year Limited Lawn and Garden Commercial Warranty

The Ariens Company (Ariens) warrants to the **original purchaser** that all Gravely Pro and ProMaster products manufactured by Ariens will be free from defects in material and workmanship for a period of two (2) years after the date of purchase or 1000 hours of use, whichever comes first. An authorized Gravely dealer will repair any defect in material or workmanship, and repair or replace any defective part, subject to the conditions, limitations and exclusions set forth herein. Such repair or replacement will be free of charge to the **original purchaser** (labor and parts), except as noted below.

The duration of this warranty shall be ninety (90) days after the date of purchase or 1000 hours of use, whichever comes first, if any product is rented or leased.

3-Year Limited Sno-Thro Warranty

Ariens Company (Ariens) warrants to the **original purchaser** that Sno-Thro products manufactured by Ariens Company will be free from defects in material and workmanship for a period of three (3) years after the date of purchase, and will repair any defect in material or workmanship, and repair or replace any defective part, subject to the conditions, limitations and exclusions set forth herein. Such repair or replacement will be free of charge to the **original purchaser** (labor and parts), except as noted below.

The three-year duration of this warranty applies only if the product is put to ordinary, reasonable, and usual personal, family, or household uses. If the product is put to any business, commercial, or industrial use, then the duration of this warranty is ninety (90) days after the date of purchase, or one (1) year after the date of purchase if the product is labeled as a Professional/Commercial Product. The duration of this warranty shall be ninety (90) days after the date of purchase if any product is rented or leased.

DURA-CLEAN™ Auger Limited Lifetime Warranty

Ariens Company (Ariens) warrants to the **original purchaser** that the rubber components of the DURA-CLEAN™ Auger manufactured by Ariens Company will be free from defects in material and workmanship and will not wear out for the life of the Sno-Thro, except as noted below.

Ariens Company will provide for the replacement of any of the rubber components of the DURA-CLEAN™ Auger found upon examination by the Ariens Company to be defective or worn out. Replacements will be supplied free of charge. Labor is not included after two (2) years from the date of purchase of the Sno-Thro.

The lifetime limited warranty shall apply if the product is put to ordinary, reasonable, and usual personal household use. If the product is put to any business, commercial, industrial, rental, or leased use, the warranty shall be against defects in material and workmanship for ninety (90) days following the date of purchase.

Exceptions, Limitations, Exclusions

These warranties are subject to the following conditions, limitations, and exclusions:

To obtain warranty service, the following conditions must be met:

- The purchaser must perform the maintenance and minor adjustments explained in the owner's manual.
- The purchaser must promptly notify Ariens Company or an authorized Ariens service representative of the need for warranty service.
- The purchaser must transport the product to and from the place of warranty service.
- Warranty service must be performed by a respective Ariens or Gravely authorized service representative.
- To find an Ariens or Gravely authorized service representative, contact Ariens at:

655 W. Ryan St, P.O. Box 157
Brillion, WI 54110-0157
(920) 756 - 2141
www.ariens.com
www.gravely.com

This warranty is subject to the following limitations:

- Genuine Ariens or Gravely brand service parts and accessories not purchased with the product covered by this warranty, but which are later purchased and used with that product, are warranted to be free from defects in material and workmanship for a period of ninety (90) days after date of purchase, and Ariens Company will repair or replace any such part or accessory free of charge, except for labor, during that period.
- Batteries are warranted only for a period of twelve (12) months after date of purchase, on a prorated basis. For the first ninety (90) days of the warranty period, a defective battery will be replaced free of charge. If the applicable warranty period is more than 90 days, Ariens Company will cover the prorated cost of any defective battery, for up to twelve (12) months after the date of purchase.

The following items are excluded from this warranty:

- Engines and engine accessories are covered only by the engine manufacturer's warranty and are not covered by this warranty.
- Peerless gearboxes and/or transmissions are covered only by Peerless' warranty and are not covered by this warranty.
- Hydro-Gear transmissions and/or Hydro-Gear drive components are covered only by the Hydro-Gear warranty and are not covered by this warranty.
- Parts that are not genuine Ariens or Gravely brand service parts are not covered by this warranty.
- Except as specifically warranted, normal maintenance, services, and normal replacement items, such as spark plugs, oil, oil filters, air filters, mufflers, belts, tires, shoes, runners, scraper blades, shear bolts, mower blades, mower vanes, headlights, light bulbs, knives, etc. are not covered by this warranty except as noted below.
- Mufflers, belts, and tires on consumer lawn and garden products are warranted to the **original purchaser** for two years.
- Friction discs, idlers, cables, and electrical components on Sno-Thros put to usual personal household use are warranted to the **original purchaser** for two years.
- Any defect which is the result of misuse, alteration, improper assembly, improper adjustment, neglect, or accident is not covered by this warranty.
- This warranty applies only to products purchased in the United States (including Puerto Rico) and Canada. In all other countries, contact place of purchase for warranty information.

Ariens may from time to time change the design of its products. Nothing contained in this warranty shall be construed as obligating Ariens to incorporate such design changes into previously manufactured products, nor shall such changes be construed as an admission that previous designs were defective.

LIMITATION OF REMEDY AND DAMAGES

Ariens Company's liability under this warranty, and under any implied warranty that may exist, is limited to repair of any defect in workmanship, and repair or replacement of any defective part. Ariens Company shall not be liable for incidental, special, or consequential damages (including lost profits). Some states do not allow the exclusion of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

DISCLAIMER OF FURTHER WARRANTY

Ariens Company makes no warranty, express or implied, other than what is expressly made in this warranty. If the law of your state provides that an implied warranty of merchantability, or an implied warranty of fitness for particular purpose, or any other implied warranty, applies to Ariens Company, then any such implied warranty is limited to the duration of this warranty. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Ariens Company
655 West Ryan Street
P.O. Box 157
Brillion, WI 54110-0157
920-756-2141
Fax 920-756-2407
www.ariens.com

⚠ WARNING ⚠

The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.